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Enumeration of the Decapod and Stomatopod Crustacea  
from Pacific Coral Islands

by

L. B. Holthuis

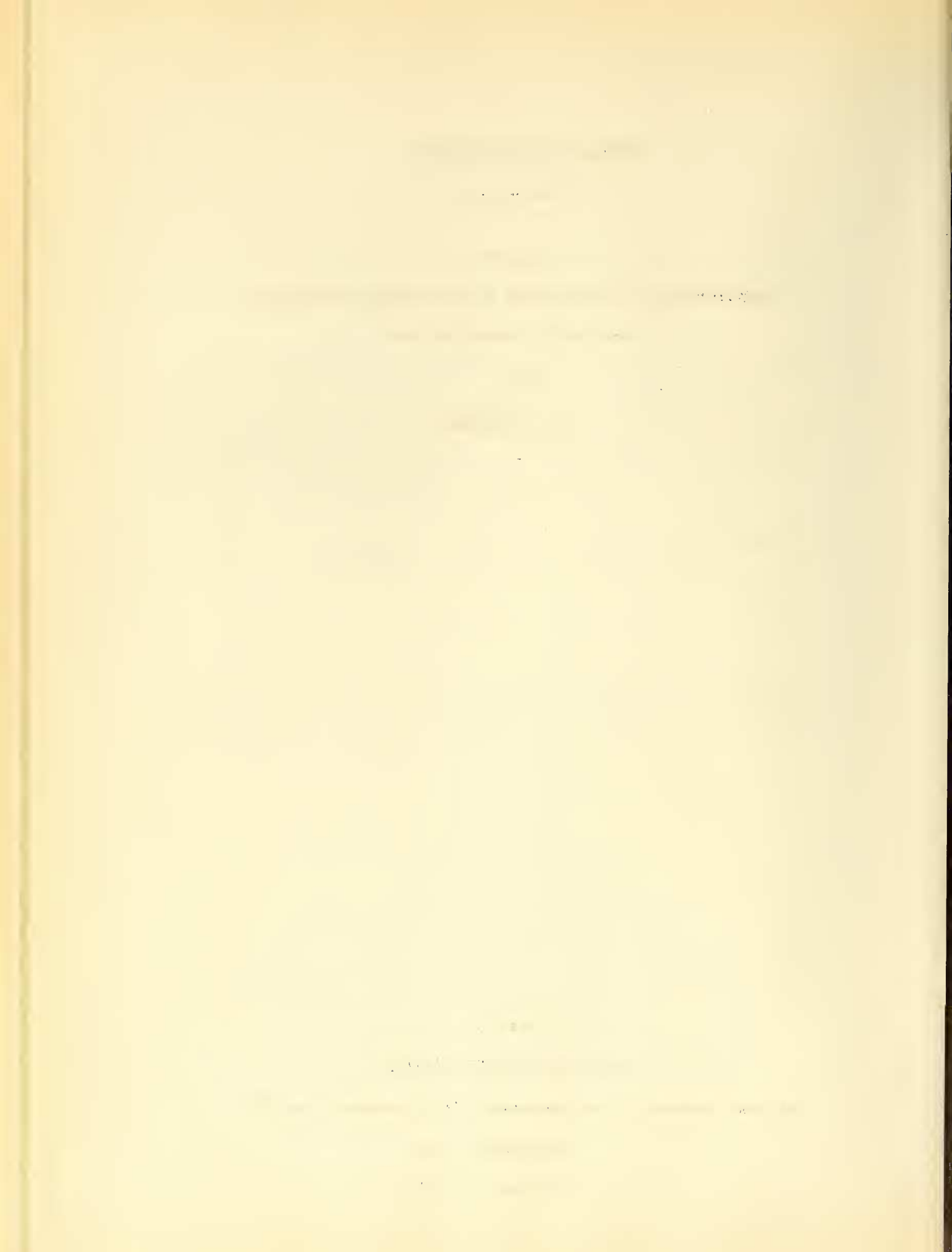
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Enumeration of the Decapod and Stomatopod Crustacea  
from Pacific Coral Islands

L. B. Holthuis

Rijksmuseum van Natuurlijke Historie

Leiden, The Netherlands

June 5, 1953

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INTRODUCTION

The present enumeration lists the Decapod and Stomatopod Crustacea collected during the first three years of the Pacific Science Board's Coral Atoll Program. The collections include those made at Arno Atoll, Marshall Islands, in 1950; at Onotoa Atoll, Gilbert Islands, in 1951; in the Marshall Islands in 1951-1952; and at Raroia Atoll, Tuamotu Islands, in 1952. Also included are the Decapoda and Stomatopoda collected by Dr. Preston E. Cloud, Jr. and his associates in 1949 at Saipan during ecological investigations of the Saipan reefs under a project sponsored by the U. S. Geological Survey.

The work of the author on this enumeration was made possible by a contract between the Office of Naval Research, Department of the Navy, and the National Academy of Sciences (NR160 175).

The list of species given here is not annotated and is intended only to furnish the ecologists, who collected the material, with the names of their specimens. Since the number of scientists involved is rather large, it was not feasible to provide each with a typed copy. Therefore, it was decided to present this list in the present mimeographed form. A duly annotated report on the Decapoda Macrura will be published in the near future.

The present enumeration is not complete insofar as the crabs of the family Trapeziidae are excluded. The material of this group has been turned over to Dr. Fenner A. Chace, Jr., curator of the Division of Marine Invertebrates of the U. S. National Museum, who is preparing a revision of this family. Through lack of time, only one species each of the families Galatheidæ and Porcellanidæ have been dealt with here.

Full station data generally are given with each record. The location of the 1949 P. E. Cloud Saipan stations may be seen on map No. 1. The data associated with R. W. Hiatt's material collected during the 1950 Arno Atoll Expedition are given as a supplement at the end of this paper, at least for the non-Macruran Decapods. Dr. Hiatt's station data for the Macrura are given under each species. Albert H. Banner's 1951 Onotoa localities are to be found on map No. 2. Several of these localities are discussed by Dr. Banner in Atoll Research Bulletin No. 13, Pt. I (1952).

DECAPODA

I. Brachyura

DROMIACEA

Family Dromiidae

Cryptodromia canaliculata Stimpson

- a. Onotoa, Gilbert Islands; November 16, 1951; D. E. Strasburg; Loc. A. I-II: 1 spec.
- b. Homohomo Island, Raroia Atoll, Tuamotu Islands; from under rocks, etc., near shore; July 21, 1952; J. P. E. Morrison; Loc. 1962: 1 spec.
- c. Homohomo Island, Raroia Atoll, Tuamotu Islands; from under rocks near shore in pavement pool zone; July 21, 1952; J. P. E. Morrison; Loc. 1963: 1 spec.

Family Dynomenidae

Dynomene spinosa Rathbun

- a. Homohomo Island, Raroia Atoll, Tuamotu Islands; from under rocks near shore in pavement pool zone; July 21, 1952; J. P. E. Morrison; Loc. 1963: 1 spec.

OKYSTOMATA

Family Calappidae

Calappa hepatica (L.)

- a. Ine Village, Arno Atoll, Marshall Islands; sand near shore of lagoon; July 25, 1950; J. W. Wells; Loc. 60: 1 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E. 2-164: 3 spec.
- c. Onotoa, Gilbert Islands; July - August, 1951; A. H. Banner: 1 spec.
- d. Onotoa, Gilbert Islands; July - August, 1951; A. H. Banner; Loc. B: 1 juv.
- e. Onotoa, Gilbert Islands; July 26, 1951; A. H. Banner; Loc. B 1-6: 3 spec.
- f. Onotoa, Gilbert Islands; clean limesand flat in the vicinity of a point about 3000 ft. E. of Aonteuma, NW. Onotoa, area exposed at mid-tide; August 21, 1951; F. E. Cloud; Loc. GOC-42: 1 spec.
- g. Leeward reef, Ailuk Atoll, Marshall Islands, just west of Ailuk Island; leeward side; 1951-1952; F. S. MacNeil; Loc. 846: 1 spec.
- h. West end of Ailuk Island, Ailuk Atoll, Marshall Islands; leeward reef; 1951-1952; F. S. MacNeil; Loc. 853: 2 spec.
- i. Lae Island, Lae Atoll, Marshall Islands; windward side, under rocks; 1951-1952; F. S. MacNeil; Loc. 877: 1 juv.
- j. Island north of Lae Island, Lae Atoll, Marshall Islands; lagoon side; 1951-1952; F. S. MacNeil; Loc. 879: 1 spec.

Matuta banksi Leach

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E. 2-144:  
1 spec.

Family Leucosiidae

Nucia speciosa Dana

- a. Lagoon west of Saipan, Marianas Islands; May 4, 1949; P. E. Cloud;  
Loc. E-8; from coral rock: 1 spec.  
b. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E.  
Cloud; Loc. 4; 500 yds. NNE of Managaha Island: 1 spec.

OXYRHYNCHA

Family Majidae

Subfamily Acanthonychinae

Menaethius monoceros (Latreille)

- a. Lagoon west of Saipan, Marianas Islands; April 8, 1949; P. E.  
Cloud; Loc. B-2; taken from vegetation and sand brought up by  
diving with face plate: 6 spec.  
b. Lagoon west of Saipan, Marianas Islands; April 9, 1949; P. E.  
Cloud; Loc. C-1: 1 spec.  
c. Lagoon west of Saipan, Marianas Islands; April 6, 1949; P. E.  
Cloud; Loc. D-5: 4 spec.  
d. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E.  
Cloud; Loc. 4; 500 yds. NNE of Managaha Island: 3 spec.  
e. Onotoa, Gilbert Islands; SE end of reef area known as Rakai  
Ati, S. side of big windward point of reef near center of  
atoll. Collected in  $\frac{1}{2}$  mile strip across the reef; August 20,  
1951; P. E. Cloud; Loc. GOC-36: 1 spec.  
f. Ngarunoea Island, Raroia Atoll, Tuamotu Islands; outer part of  
old wharf along lagoon beach at village; August 29, 1952;  
J. P. E. Morrison; Loc. 2224: 1 spec.

Trigonothir obtusirostris Miers

- a. Lagoon west of Saipan, Marianas Islands; April 19, 1949; P. E.  
Cloud; Loc. F-X: 1 spec.

Xenocarcinus depressus Miers

- a. Onotoa, Gilbert Islands; about 9200 ft. S. 72° W. from offshore  
end of Government Station jetty (on S. portion of northern main  
island) just S. of main passage out of lagoon (Rawa ni Karoro)  
where coral shoals, known as Aon te ra Bata, begin to deepen.  
From area where patch reefs rise above the limesand bottom  
at 16 ft. depth; July 29, 1951; P. E. Cloud; Loc. GOC-27:  
1 spec.

Subfamily Pisinae

Tylocarcinus styx (Herbst)

- a. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E.  
Cloud; Loc. C-7A: 2 spec.  
b. Lagoon west of Saipan, Marianas Islands; April 6, 1949; P. E.  
Cloud; Loc. D-5: 1 spec.

Subfamily Hyasteninae

Micippoides angustifrons A. Milne Edwards

- a. N. of Kahongi Island, Raroia Atoll, Tuamotu Islands; from outer end of channel, and from outer beach pavement flats of outer reef in same area; July 25, 1952; J. P. E. Morrison; Loc. 1994: 1 spec.

Perinea tumida Dana

- a. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-6: 3 spec.  
b. Ine Anchorage, Arno Atoll, Marshall Islands; from coral rock on reef flat; August and July, 1950; J. H. Wells; Loc. 6: 1 spec.  
c. Onotoa, Gilbert Islands; August 20, 1951; P. E. Cloud: 1 spec.  
d. Onotoa, Gilbert Islands; from Pocillopora coral, ocean shelf, 25 feet deep; August 10, 1951; A. H. Banner; Loc. A-X: 1 spec.  
e. Onotoa, Gilbert Islands; from Pocillopora; August 6, 1951; A. H. Banner; Loc. A-14: 3 spec.  
f. Onotoa, Gilbert Islands; on sponges; August 6, 1951; A. H. Banner; Loc. A-17: 2 spec.

Subfamily Majinae

Cyclax suborbicularis (Stimpson)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E. 1-702: 1 ovig. female.

Subfamily Mithracinae

Micippa parca Alcock

- a. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. D-7: 1 spec.

Micippa platipes Rüppell

- a. Donkolo Agingan, Saipan, Marianas Islands; in pool at edge of low tide; May 4, 1949; collector, Mrs. David; P. E. Cloud: 1 spec.  
b. Onotoa, Gilbert Islands; August 2, 1951; A. H. Banner; Loc. A-7: 1 spec.  
c. Onotoa, Gilbert Islands; August 2, 1951; A. H. Banner; Loc. A-8-9: 1 spec.  
d. Onotoa, Gilbert Islands; November 16, 1951; D. E. Strasburg; Loc. A. I-II: 4 spec.

Family Parthenopidae

Subfamily Parthenopinae

Daldorfia horrida (L.)

- a. Lagoon west of Saipan, Marianas; May 13, 1949; P. E. Cloud; Loc. D-7: 1 spec.  
b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-171: 1 spec.



Subfamily Eumedoninae

Eumedonus convictor Bouvier & Seurat

- a. North end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; commensal on anal plate region of Banded Spined Poison Sea Urchins (Echinothrix diadema (L.)), one on each Urchin of good size; from pockets (sandy bottom, etc.) in inner reef only, near lagoon edge of reef in transect area at night; September 2, 1952; J. P. E. Morrison; Loc. 2246: 2 spec.

Harrovia purpurea Gordon

- a. Kwadak, Kwajalein Atoll, Marshall Islands; on Comanthus bennetti (J. Muller), 3-4 fms. deep; July 1, 1951; P. E. Cloud: 4 spec.

BRACHYRHYNCHA

Family Portunidae

Subfamily Caphyrinae

Caphyra rotundifrons (A. Milne Edwards)

- a. Lagoon north of Matuis Beach, NW. Saipan, Marianas Islands; picked from head of brown Acropora; December 12, 1948; P. E. Cloud: 1 spec.

Lissocarcinus orbicularis Dana

- a. Matuis Beach, NW. Saipan, Marianas Islands; commensal in black holothurian, 5 crabs in 100 host specimens, four of them found within host at oral end, fifth had crawled out; color alive, black with white spots; December 19, 1948; P. E. Cloud: 5 spec.

Subfamily Portuninae

Charybdis erythrodactyla (Lamarck)

- a. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from outer reef, fishing at night; July 22, 1952; J. P. E. Morrison; Loc. 1972, 1973: 4 spec.
- b. South end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from outer reef, fishing at night; mostly from near edge of outer reef, a little behind the Lithothamnion ridge; July 22, 1952; J. P. E. Morrison; Loc. 1979-1983: 3 spec.
- c. Oneroa Island, Raroia Atoll, Tuamotu Islands; outer reef, zone just behind the Lithothamnion ridge or in it, at night; August 4, 1952; J. P. E. Morrison; Loc. 2042: 1 spec.

Portunus (Cycloachelous) granulatus (H. Milne Edwards)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E. 1-16: 1 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E. 1-435: 1 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E. 2-21: 1 spec.
- d. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E. 2-457: 1 spec.

- e. Onotoa, Gilbert Islands; clean limesand flat in the vicinity of a point about 3000 ft. E. of Aontema, NW. Onotoa; area exposed at mid-tide; August 21, 1951; P. E. Cloud; Loc. GOC-42: 1 spec.
- f. South end of Oneroa Island, Raroia Atoll, Tuamotu Islands; white swimming crab hiding in the fine white sand; August 7, 1952; J. P. E. Morrison; Loc. 2078: 1 spec.

Portunus (Hollenus) longispinosus (Dana)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E. 2-505: 2 juv.
- b. Onotoa, Gilbert Islands; July 19, 1951; A. H. Banner; Loc. A-4: 1 spec. (q.)
- c. Onotoa, Gilbert Islands; November 16, 1951; D. E. Strasburg; Loc. A. I-II: 3 spec.
- d. Opakea Island, Raroia Atoll, Tuamotu Islands; small and fragile sand crabs from sandy bottom of shallow tide pool remaining at low tide, at night; at SE. point of island; August 26, 1952; J. P. E. Morrison; Loc. 2196: 2 spec. (1 ovig. female).

Thalamita admete (Herbst)

- a. Saipan, Marianas Islands; from a single large head of Acropora leptocyathus; April 7, 1949; P. E. Cloud: 1 spec.
- b. Matuis Beach, NW. Saipan, Marianas Islands; taken mostly from clump of brown Acropora and partly from Pocillopora damicornis cespitosa; December 17, 1948; P. E. Cloud: 5 spec.
- c. Lagoon west of Saipan, Marianas Islands; April 12, 1949; P. E. Cloud; Loc. A-5: 2 spec.
- d. Lagoon west of Saipan, Marianas Islands; April 27, 1949; P. E. Cloud; Loc. A-7: 2 spec.
- e. Onotoa, Gilbert Islands; July 11, 1951; A. H. Banner; Loc. A-4: 26 spec.
- f. Onotoa, Gilbert Islands; July 19, 1951; A. H. Banner; Loc. A-4: 7 spec. (q.)
- g. Onotoa, Gilbert Islands; August 2, 1951; A. H. Banner; Loc. A-7: 1 spec.
- h. Onotoa, Gilbert Islands; July 13, 1951; A. H. Banner; Loc. A-Z (=2?): 6 spec.
- i. Onotoa, Gilbert Islands; November 16, 1951; D. E. Strasburg; Loc. A. I-II: 41 spec.
- j. Onotoa, Gilbert Islands; NW. Onotoa about 1300 ft. NE. from Namokoro, in an area of gravelly sand bottom with maximum depths of about 12-14 ins. at low tide and with occasional heads of digitate Porites lobata; August 21, 1951; P. E. Cloud; Loc. GOC-39: 2 spec.

Thalamita coeruleipes Jacquinet

- a. Onotoa, Gilbert Islands; August 15, 1951; A. H. Banner; Loc. B-8: 3 spec.
- b. Onotoa, Gilbert Islands; S. portion of northern main island, about 800 ft. SW. from the offshore end of Government Station jetty and 1200 ft. directly offshore from the lagoon end of the Pacific Science Board campstrip; July 25, 1951; P. E. Cloud; Loc. GOC-22: 1 spec.

Thalamita danae Stimpson

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-306:  
1 ovig. female.

Thalamita ? edwardsi Borradaile

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-47:  
3 spec.  
b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-308:  
1 ovig. female.

Thalamita ? intermedia Miers

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-503:  
1 spec.

Thalamita picta Stimpson

- a. Lagoon west of Saipan, Marianas Islands; April 7, 1949; P. E. Cloud; Loc. A.-11; from coral heads in 4 to 6 ft. water:  
1 spec.  
b. Onotoa, Gilbert Islands; July 11, 1951; A. H. Banner; Loc. A-4:  
12 spec.  
c. Onotoa, Gilbert Islands; July 19, 1951; A. H. Banner; Loc. A-4:  
1 spec. (q.)  
d. Onotoa, Gilbert Islands; August 2, 1951; A. H. Banner; Loc. A 8-9:  
1 spec.  
e. Onotoa, Gilbert Islands; August 4, 1951; A. H. Banner; Loc. A 10-12:  
1 spec.  
f. Onotoa, Gilbert Islands; July 20, 1951; A. H. Banner; Loc. A 11:  
3 spec.  
g. Onotoa, Gilbert Islands; November 16, 1951; D. E. Strasburg;  
Loc. A. I-II: 7 spec.  
h. Onotoa, Gilbert Islands; SE. end of reef area known as Rakai  
Ati, S. side of big windward point of reef near center of the  
atoll; collected from  $\frac{1}{2}$  mile strip across the reef; August 20,  
1951; P. E. Cloud; Loc. GOC-36: 1 spec.  
i. South end of Ngarunaoa Island, Raroia Atoll, Tuamotu Islands;  
sandy pavement flats near shore; July 23, 1952; J. P. E.  
Morrison; Loc. 1977: 1 spec.

Thalamita pilumnoides Borradaile

- a. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. C-7a: 2 spec.  
b. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud;  
Loc. D-6: 5 spec.  
c. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. D-8: 6 spec.  
d. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 1 spec.

Thalamita prymna (Herbst)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-5:  
1 spec.  
b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-151:  
4 spec.  
c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-307:  
1 spec.

Thalamita quadrilobata Miers

- a. Onotoa, Gilbert Islands; toward S. end of a lee reef stretch known as Rakai Ati, in an area of small coral patches fairly thickly interspersed on limesand and coral debris. The bottom is at depths of 3-4 ft. at low tide; July 26, 1951; P. E. Cloud; Loc. GOC-24: 1 spec.

Thalamita wood-masoni Alcock

- a. Lagoon west of Saipan, Marianas Islands; April 8, 1949; P. E. Cloud; Loc. B-2; taken from vegetation and sand brought up by diving with face plate: 2 spec.

Thalamita spec.

- a. Saipan, Marianas Islands; 1949; P. E. Cloud; Loc. D.-8: 1 juv.  
b. Ngarunaoa Island, Raroia Atoll, Tuamotu Islands; outer reef flats; July 8, 1952; J. P. E. Morrison; Loc. 1885: 1 spec.

Thalamitoides quadridens (A. Milne Edwards)

- a. Lagoon west of Saipan, Marianas Islands; April 12, 1949; P. E. Cloud; Loc. A-5: 9 spec.  
b. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. C-7A: 3 spec.  
c. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. D-7: 5 spec.  
d. Lagoon west of Saipan, Marianas Islands; May 5, 1949; P. E. Cloud; Loc. E-7; from coral rock: 2 spec.  
e. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 2 spec.  
f. Onotoa, Gilbert Islands; about 9200 ft. S. 72° W. from offshore end of Government Station jetty (on S. portion of northern main island) just S. of main passage out of lagoon (Rawa ni Karoro) where coral shoals known as Aon te ra Bata begin to deepen. From area where patch reefs rise above the limesand bottom at 16 ft. depth; July 29, 1951; P. E. Cloud; Loc. GOC-27: 1 spec.  
g. Onotoa, Gilbert Islands; slightly less than 4 miles N. 85° W. from Aiaki Maneaba in outer lagoon. Patch reefs rising above limesand surface at 14 ft. to within 6 ft. of the surface; July 30, 1951; P. E. Cloud; Loc. GOC-28: 1 spec.  
h. Onotoa, Gilbert Islands; about 9300 ft. N. 30° W. from Tabuarorae Maneaba in S. part of Te Rawa Tokatobibi, a pass through the S. end of the leeward reef. Collected from patch reefs rising to an occasional maximum of within 4 ft. of the surface from a bottom sounded at 18 ft.; August 23, 1951; P. E. Cloud; Loc. GOC-53: 1 spec.  
i. Onotoa, Gilbert Islands; about 13,400 ft. S. 75° W. from Aiaki Maneaba in the deep central part of the lagoon. The bottom is of low scattered dead and living coral patches on intervening limemud and limesand about 30-40% seds. and 60-70% coral; August 25, 1951; P. E. Cloud; Loc. GOC-55: 1 spec.

Subfamily Catoptrinae

Carupa laeviuscula Holler

- a. Homohomo Island, Raroia Atoll, Tuamotu Islands; under rocks near shore; July 21, 1952; J. P. E. Morrison; Loc. 1962: 1 spec.

Catoptrus nitidus A. Milne Edwards

- a. Onotoa, Gilbert Islands; tidepool in Heliopora flat, 2 ft. deep; August 1, 1951; A. H. Banner: 1 spec.

Libystes spec.

- a. Saipan, Marianas Islands; April 4, 1949; P. E. Cloud; Loc. A-8, taken from dead coral and algal rock at a depth of about 10 ft.: 1 spec.

Family Atelecyclidae

Subfamily Thiinae

Kraussia rugulosa (Krauss)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E. 1-44: 1 spec.  
b. Lagoon west of Saipan, Marianas Islands; April 7, 1949; P. E. Cloud; Loc. A-11, from coral head in 4-6 ft. of water: 1 spec.  
c. Onotoa, Gilbert Islands; Heliopora flat, tidepool, 2 ft. deep; August 1, 1951; A. H. Banner: 1 spec.

Family Xanthidae

Actaea cavipes (Dana)

- a. Saipan, Marianas Islands; January 30, 1949; P. E. Cloud: 1 spec.  
b. Lagoon west of Saipan, Marianas Islands; April 12, 1949; P. E. Cloud; Loc. A-5: 3 spec.  
c. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 1 spec.  
d. Onotoa, Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4: 4 spec.  
e. Onotoa, Gilbert Islands; S. part of northern main island, about 800 ft. SW. from the offshore end of Government Station jetty and 1200 ft. directly offshore from the lagoon end of the PSB campstrip; July 25, 1951; P. E. Cloud; Loc. GOC-22: 1 spec.  
f. Butaritari Atoll, Gilbert Islands; about  $\frac{1}{2}$  mile E. offshore from the central part of Bikati Island, in pocket of broad area of Heliopora reef, NW. Butaritari; September 3, 1951; P. E. Cloud; Loc. GBC-2: 1 spec.  
g. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from coralline algae from outer reef margin, N. end of island; September 3, 1952; J. P. E. Morrison; Loc. 2252: 1 spec.

Actaea hirsutissima (Ruppell)

- a. Saipan, Marianas Islands; P. E. Cloud; Loc. C-IX: 1 spec.  
b. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 2 spec.  
c. Lagoon west of Saipan, Marianas Islands; May 3, 1949; P. E. Cloud; Loc. E-4: 2 spec.

Actaea lata Borradaile

- a. Lagoon west of Saipan, Marianas Islands; April 9, 1949; P. E. Cloud; Loc. C-1: 1 ovig. female.  
b. Lagoon west of Saipan, Marianas Islands; April 10, 1949; P. E. Cloud; Loc. C-7a: 2 spec.

- c. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 1 spec.
- d. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 1 spec.
- e. Nado Island, Likiep Atoll, Marshall Islands; 1951-1952; F. S. MacNeil; Loc. 827: 1 spec.

Actaea polycantha (Hollor)

- a. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. C-7a: 1 spec.
- b. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 3 spec.
- c. Onotoa, Gilbert Islands; back ridge trough, about 600 ft. offshore from Pacific Science Board camp at the outer margin of the windward reef, just inshore from the algal ridge and surge channels. This part of the reef never dries even at low tide and generally has at least a foot or two of water above it; August 1, 1951; P. E. Cloud; Loc. GOC-32: 1 spec.
- d. Onotoa, Gilbert Islands; SE. end of reef area known as Rakai Ati, S. side of big windward point of reef near center of atoll. Collected from  $\frac{1}{2}$  mile strip across the reef; August 20, 1951; P. E. Cloud; Loc. GOC-36: 1 spec.
- e. South Loi Island, Kwajalein Atoll, Marshall Islands; windward reef flat; 1951-1952; F. S. MacNeil; Loc. 894: 1 spec.

Actaea rufopunctata (H. Milne Edwards)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E-1-386: 1 spec.
- b. Onotoa, Gilbert Islands; about  $3\frac{1}{2}$  miles N.  $31^{\circ}$  W. from Tabuarorac Nancaba near the center of Te Rawa ni Bao, a pass in the S. part of the leeward reef. From thickly set coral masses rising from 15 ft. (sounded at low tide) of water to within 8 ft. - 10 ft. of the surface locally; August 23, 1951; P. E. Cloud; Loc. GOC-51: 1 spec. (with Rhizocephalan).
- c. Ngarumoa Island, Raroia Atoll, Tuamotu Islands; outer reef; July 7, 1952; J. P. E. Morrison; Loc. 1877: 1 spec.

Actaea speciosa (Dana)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E-1-390: 4 spec.

Actaea spec. aff. speciosa (Dana)

- a. Onotoa, Gilbert Islands; about  $3\frac{1}{2}$  miles N.  $31^{\circ}$  W from Tabuarorac Nancaba near the center of Te Rawa ni Bao, a pass in the S. part of the leeward reef. From thickly set coral masses rising from 15 ft. (sounded at low tide) of water to within 8 ft. - 10 ft. of the surface locally; August 23, 1951; P. E. Cloud; Loc. GOC-51: 2 spec.

Actaea superciliaris Odhner

- a. Lagoon west of Saipan, Marianas Islands; April 10, 1949; P. E. Cloud; Loc. C-7a: 1 spec.
- b. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 1 spec.

- c. Homohomo Island, Raroia Atoll, Tuamotu Islands; from under rocks, etc., near shore; July 21, 1952; J. P. E. Morrison; Loc. 1962: 3 spec.

Actaea tomentosa (H. Milne Edwards)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-175: 1 spec.

Atergatis ? dilatatus De Haan

- a. Lagoon west of Saipan, Marianas Islands; April 10, 1949; P. E. Cloud; Loc. C-7a: 1 spec.

Atergatis floridus (L.)

- a. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 4 spec.  
b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-386: 1 juv.  
c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-3: 3 spec.  
d. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-170: 3 spec.  
e. Bikati Island, Butaritari Atoll, Gilbert Islands; about  $\frac{1}{2}$  mile E. offshore from the central part of Bikati Island in pocket of broad area of Heliopora reef, NW. Butaritari; September 3, 1951; P. E. Cloud; Loc. GBC-2: 1 spec.

Atergatopsis signatus (Adams & White)

- a. South end Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from outer reef, fishing at night, mostly from near edge of outer reef, a little behind the Lithothamnion ridge; July 23, 1952; J. P. E. Morrison; Loc. 1979-1983: 1 spec.

Carpilius convexus (Forsk.)

- a. South end Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; outer reef, fishing at night, mostly from near edge of outer reef, a little behind the Lithothamnion ridge; July 23, 1952; J. P. E. Morrison; Loc. 1979-1983: 4 spec.

Carpilius maculatus (L.)

- a. Onotoa, Gilbert Islands; tidepool in Heliopora flat, 2 feet deep; August 1, 1951; A. H. Banner: 1 juv.  
b. South end Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from outer reef, fishing at night, mostly from near edge of outer reef, a little behind the Lithothamnion ridge; July 23, 1952; J. P. E. Morrison; Loc. 1979-1983: 5 spec.

Carpilodes bellus (Dana)

- a. Saipan, Marianas Islands; April 4, 1949; P. E. Cloud; Loc. A-8; taken from dead coral and algal rock, ca. 10 ft. deep: 1 spec.  
b. Lagoon west of Saipan, Marianas Islands; April 12, 1949; P. E. Cloud; Loc. A-5: 4 spec.  
c. Lagoon west of Saipan, Marianas Islands; April 27, 1949; P. E. Cloud; Loc. A-7: 1 spec.  
d. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 11 spec.

- e. Onotoa, Gilbert Islands; tidepool in Heliopora flat, 2 ft. deep; August 1, 1951; A. H. Banner: 1 spec.
- f. Onotoa, Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4: 5 spec.
- g. Onotoa, Gilbert Islands; slightly less than 4 miles N. 85° W. from Aiaki Maneaba in outer lagoon. Patch reefs rising above the limesand surface at 14 ft. to within 6 ft. of the surface; July 30, 1951; P. E. Cloud; Loc. GOC-28: 1 spec.
- h. Onotoa, Gilbert Islands; about 13,400 ft. S. 75° W. from Aiaki Maneaba in the deep central part of the lagoon. The bottom is of low scattered dead and living coral patches on intervening limemud and limesand about 30-40% seds. and 60-70% coral; August 25, 1951; P. E. Cloud; Loc. GOC-55: 4 spec.

Carpilodes edwardsi (Kossmann)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-651: 1 spec.

Carpilodes monticulosus A. Milne Edwards

- a. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. C-7a: 1 spec.
- b. Onotoa, Gilbert Islands; August 24, 1951; A. H. Banner; Loc. A-XVI: 1 spec.
- c. Onotoa, Gilbert Islands; about 3½ miles N. 31° W. from Tabuarorae Maneaba near the center of Te Rawi ni Bao, a pass in the S. part of the leeward reef. Collected from thickly set coral masses rising from 15 ft. (sounded at low tide) of water to within about 8 ft. - 10 ft. of the surface locally; August 23, 1951; P. E. Cloud; Loc. GOC-51: 1 spec.
- d. Onotoa, Gilbert Islands; about 9300 ft. N. 30° W. from Tabuarorae Maneaba in S. part of Te Rawa Tokatobibi, a pass through the S. end of the leeward reef. Collected from patch reefs rising to an occasional maximum of within 4 feet of the surface from a bottom sounded at 18 ft.; August 23, 1951; P. E. Cloud; Loc. GOC-53: 2 spec.

Carpilodes rugatus (H. Milne Edwards)

- a. North end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from coralline algae from outer reef margin; September 3, 1952; J. P. E. Morrison; Loc. 2252: 1 ovig. female.

Carpilodes semigranosus (De Man)

- a. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 1 spec.

Carpilodes tristis Dana

- a. Lagoon west of Saipan, Marianas Islands; April 27, 1949; P. E. Cloud; Loc. A-7: 1 spec.
- b. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. D-7: 1 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-622: 1 spec.
- d. Onotoa, Gilbert Islands; in coral ?; August 9, 1951; A. H. Banner; Loc. B-5: 2 spec.



- e. Onotoa, Gilbert Islands; S. portion of northern main island, about 800 ft. SW. from the offshore end of Government Station jetty and 1200 ft. directly offshore from the lagoon end of the Pacific Science Board campstrip; July 25, 1951; P. E. Cloud; Loc. GOC-22: 1 spec.

Chlorodiella barbata (Borradaile)

- a. Saipan, Marianas Islands; 1949; P. E. Cloud; Loc. C-IX: 9 spec.  
b. Lagoon west of Saipan, Marianas Islands; April 12, 1949; P. E. Cloud; Loc. A-5: 4 spec.  
c. Lagoon west of Saipan, Marianas Islands; April 8, 1949; P. E. Cloud; Loc. B-2; taken from vegetation and sand brought up by diving with facoplate: 67 spec.  
d. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 18 spec.  
e. Lagoon west of Saipan, Marianas Islands; May 3, 1949; P. E. Cloud; Loc. E-4: 2 spec.  
f. Onotoa, Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4: 23 spec.  
g. Onotoa, Gilbert Islands; S. portion of northern main island, about 800 ft. SW. from the offshore end of Government Station jetty and 1200 ft. directly offshore from the lagoon end of the Pacific Science Board campstrip; July 25, 1951; P. E. Cloud; Loc. GOC-22: 4 spec.  
h. Onotoa, Gilbert Islands; about 1 mile S. 32° W. from Tekawa church at lagoon margin of S. end of Aon te Baba reef stretch. From patch reefs rising above 9 ft. (reduced to mean low tide) limesand bottom to within 1 ft. of the surface; July 31, 1951; P. E. Cloud; Loc. GOC-29: 2 spec.  
i. Onotoa, Gilbert Islands; NW. Onotoa about 1300 ft. NE. from Namokoro, in an area of gravelly sand bottom with maximum depths of 12-14 ins. at low tide and with occasional heads of digitate Porites lobata; August 21, 1951; P. E. Cloud; Loc. GOC-39: 2 spec.  
j. Onotoa, Gilbert Islands; about 13,400 ft. S. 75° W. from Aiaki Mancaba in the deep central part of the lagoon. The bottom is of low scattered dead and living coral patches on intervening limemud and limesand about 30-40% seds. and 60-70% coral; August 25, 1951; P. E. Cloud; Loc. GOC-55: 1 spec.  
k. Bikati Island, Butaritari Atoll, Gilbert Islands; about 1/2 mile E. offshore from the central part of Bikati Island in pocket of broad area of Heliopora reef. NW. Butaritari; September 3, 1951; P. E. Cloud; Loc. GBC-2: 3 spec.

Chlorodiella cytherea (Dana)

- a. Saipan, Marianas Islands; from a single large head of Acropora leptocyathus; April 7, 1949; P. E. Cloud: 1 spec.  
b. Lagoon west of Saipan, Marianas Islands; April 7, 1949; P. E. Cloud; Loc. A-11; from coral heads, 4-6 ft. deep: 1 spec.  
c. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. C-7a: 2 spec.  
d. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 4 spec.

- e. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-6: 2 spec.
- f. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 17 spec.
- g. Bikati Island, Butaritari Atoll, Gilbert Islands; about  $\frac{1}{2}$  mile E. offshore from the central part of Bikati Island in pocket of broad area of Heliopora reef, NW. Butaritari; September 3, 1951; P. E. Cloud; Loc. GBC-2: 1 spec.
- h. Onotoa, Gilbert Islands; about 1 mile S.  $32^{\circ}$  W. from Tekawa church at lagoon margin of S. end of reef stretch known as Aon te Baba; from patch reefs rising above 9 ft. (reduced to mean low tide) limesand bottom to within 1 ft. of the surface; July 31, 1951; P. E. Cloud; Loc. GOC-29: 1 spec.

Chlorodiella laevissima (Dana)

- a. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-6: 7 spec.
- b. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 17 spec.
- c. Onotoa, Gilbert Islands; about 8600 ft. N.  $18^{\circ}$  W. from Tabuarorae Maneaba in 17 ft. water mean low tide; August 10, 1951; P. E. Cloud; Loc. GOC-35: 1 spec.
- d. Onotoa, Gilbert Islands; SE. end of Rakai Ati reef area, S. side of big windward point of reef near center of atoll. Collected from  $\frac{1}{2}$  mile strip across the reef; August 20, 1951; P. E. Cloud; Loc. GOC-36: 1 spec.
- e. Onotoa, Gilbert Islands; about  $3\frac{1}{2}$  miles N.  $31^{\circ}$  W. from Tabuarorae Maneaba near center of Te Rawa ni Bao, a pass in the S. part of the leeward reef. Collected from thickly set coral masses rising from 15 ft. (sounded at low tide) of water to within about 8 ft. - 10 ft. of the surface locally; August 23, 1951; P. E. Cloud; Loc. GOC-51: 3 spec.

Chlorodiella nigra (Forskål)

- a. Onotoa, Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4: 19 spec.
- b. Onotoa, Gilbert Islands; S. portion of northern main island, about 800 ft. SW. from the offshore end of Government Station jetty and 1200 ft. directly offshore from the lagoon end of the Pacific Science Board campstrip; July 25, 1951; P. E. Cloud; Loc. GOC-22: 13 spec.
- c. Onotoa, Gilbert Islands; about 1 mile S.  $32^{\circ}$  W. from Tekawa church at lagoon margin of S. end of reef stretch known as Aon te Baba. Collected from patch reefs rising above 9 ft. (reduced to mean low tide) limesand bottom to within 1 ft. of the surface; July 31, 1951; P. E. Cloud; Loc. GOC-29: 1 spec.
- d. Onotoa, Gilbert Islands; about 13,400 ft. S.  $75^{\circ}$  W. from Aiaki Maneaba in the deep central part of the lagoon. The bottom is of low scattered dead and living coral patches on intervening linemud and limesand about 30-40% sed. and 60-70% coral; August 25, 1951; P. E. Cloud; Loc. GOC-55: 12 spec.

Chlorodopsis arcolata (H. Milne Edwards)

- a. Onotoa, Gilbert Islands; tidepool in Heliopora flat, 2 ft. deep; August 1, 1951; A. H. Banner: 1 spec.

- b. Onotoa, Gilbert Islands; August 2, 1951; A. H. Banner; Loc. A-7:  
2 spec.
- c. Onotoa, Gilbert Islands; August 2, 1951; A. H. Banner; Loc. A-8-9:  
4 spec.
- d. Onotoa, Gilbert Islands; August 4, 1951; A. H. Banner; Loc. A-10-12:  
3 spec.
- e. Onotoa, Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4:  
1 spec.
- f. Onotoa, Gilbert Islands; August 15, 1951; A. H. Banner; Loc. B-8:  
1 spec.
- g. Onotoa, Gilbert Islands; November 16, 1951; D. E. Strasburg;  
Loc. A-I-II: 1 juv.
- h. Onotoa, Gilbert Islands; SE. end of reef area known as Rakai  
Ati. S. side of big windward point of reef near center of the  
atoll. From a  $\frac{1}{2}$  mile strip across the reef; August 20, 1951;  
P. E. Cloud; Loc. GOC-36: 3 spec.
- i. Homohomo Island, Raroia Atoll, Tuamotu Islands; from under rocks;  
near shore; July 21, 1952; J. P. E. Morrison; Loc. 1962: 1 spec.

Chlorodopsis melanodactylus A. Milne Edwards

- a. Saipan, Marianas Islands; April 4, 1949; P. E. Cloud; Loc. A-8;  
taken from dead coral and algal rock at a depth of about 10 ft:  
1 spec.
- b. Lagoon west of Saipan, Marianas Islands; April 10, 1949; P. E.  
Cloud; Loc. C-7a: 10 spec.
- c. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E.  
Cloud; Loc. D-6: 4 spec.
- d. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E.  
Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 17 spec.
- e. Onotoa, Gilbert Islands; July 26, 1951; A. H. Banner; Loc. A-6:  
3 spec.
- f. Onotoa, Gilbert Islands; August 4, 1951; A. H. Banner; Loc.  
A-10-12: 2 spec.
- g. Onotoa, Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4:  
5 spec.
- h. Onotoa, Gilbert Islands; Heliopora flat, tidepool, 2 ft. deep;  
August 1, 1951; A. H. Banner: 2 spec.
- i. Onotoa, Gilbert Islands; November 16, 1951; D. E. Strasburg;  
Loc. A-I-II: 1 spec.
- j. Onotoa, Gilbert Islands; SE. end of Rakai Ati reef area. S.  
side of big windward point of reef near center of the atoll.  
From  $\frac{1}{2}$  mile strip across the reef; August 20, 1951; P. E.  
Cloud; Loc. GOC-36: 1 spec.
- k. Onotoa, Gilbert Islands; NW. Onotoa, about 1300 ft. NE. from  
Nanokoro, in an area of gravelly sand bottom with maximum depths  
of about 12-14 ins. at low tide and with occasional heads of  
digitate Porites lobata; August 21, 1951; P. E. Cloud; Loc.  
GOC-39: 1 spec.

Chlorodopsis pilumnoides (White)

- a. Lagoon west of Saipan, Marianas Islands; April 10, 1949; P. E.  
Cloud; Loc. C-7a; 1 spec.
- b. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E.  
Cloud; Loc. D-8: 1 spec.

- c. Onotoa, Gilbert Islands; SE. end of Rakai Ati reef area. S. side of big windward point of reef near center of the atoll; from  $\frac{1}{2}$  mile strip across the reef; August 20, 1951; P. E. Cloud; Loc. GOC-36: 3 spec.
- d. Onotoa, Gilbert Islands; about  $3\frac{1}{4}$  miles N.  $31^{\circ}$  W. from Tabuarorae Maneaba near the center of Te Rawa ni Bao, a pass in the S. part of the leeward reef; from thickly set coral masses rising from 15 ft. (sounded at low tide) of water to within about 8 ft. - 10 ft. of the surface locally; August 23, 1951; P. E. Cloud; Loc. GOC-51: 1 spec.
- e. Onotoa, Gilbert Islands; about 9300 ft. N.  $30^{\circ}$  W. from Tabuarorae Maneaba in S. part of Te Rawa Tekatobibi, a pass through the S. end of the leeward reef; from patch reefs rising to an occasional maximum of within 4 ft. of the surface from a bottom sounded at 18 ft.; August 23, 1951; P. E. Cloud; Loc. GOC-53: 1 spec.

Chlorodopsis pugil (Dana)

- a. Saipan, Marianas Islands; from a single large head of Acropora leptocyathus; April 7, 1949; P. E. Cloud: 2 spec.
- b. Saipan, Marianas Islands; P. E. Cloud; Loc. C-IX: 1 spec.
- c. Saipan, Marianas Islands; April 4, 1949; P. E. Cloud; Loc. A-8, taken from dead coral and algal rock at a depth of about 10 ft.: 3 spec.
- d. Lagoon west of Saipan, Marianas Islands; April 27, 1949; P. E. Cloud; Loc. A-7: 7 spec.
- e. Lagoon west of Saipan, Marianas Islands; April 12, 1949; P. E. Cloud; Loc. A-5: 17 spec.
- f. Lagoon west of Saipan, Marianas Islands; April 9, 1949; P. E. Cloud; Loc. C-1: 2 spec.
- g. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 8 spec.
- h. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. D-7: 1 spec.
- i. Lagoon west of Saipan, Marianas Islands; April 19, 1949; P. E. Cloud; Loc. F-X: 2 spec.
- j. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 8 spec.
- k. Onotoa, Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4: 2 spec.
- l. Onotoa, Gilbert Islands; S. portion of northern main island, about 800 ft. SW. from offshore end of Government Station jetty and 1200 ft. directly offshore from the lagoon end of the Pacific Science Board campstrip; July 25, 1951; P. E. Cloud; Loc. GOC-22: 3 spec.
- m. Onotoa, Gilbert Islands; slightly less than 4 miles N.  $85^{\circ}$  W. from Aiaki Maneaba in outer lagoon; patch reefs rising above the limesand surface at 14 ft. to within 6 ft. of the surface; July 30, 1951; P. E. Cloud; Loc. GOC-28: 4 spec.
- n. Onotoa, Gilbert Islands; about 1 mile S.  $32^{\circ}$  W. from Tokawa church at lagoon margin of S. end of Aon te Baba reef stretch; from patch reefs rising above 9 ft. (reduced to mean low tide) limesand bottom to within 1 ft. of the surface; July 31, 1951; P. E. Cloud; GOC-29: 7 spec.

- o. Onotoa, Gilbert Islands; NW. Onotoa, about 1300 ft. NE. from Namokoro, in an area of gravelly sand bottom with maximum depths of about 12-14 ins. at low tide and with occasional heads of digitate Porites lobata; August 21, 1951; P. E. Cloud; Loc. GOC-39: 1 spec.
- p. Onotoa, Gilbert Islands; about 13,400 ft. S. 75° W. from Aiaki Mancaba in the deep central part of the lagoon; bottom of low scattered dead and living coral patches on intervening limenud and limesand about 30-40% seds. and 60-70% coral; August 25, 1951; P. E. Cloud; Loc. GOC-55: 10 spec.

Cyclodius ornatus Dana

- a. Onotoa, Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4: 1 spec.
- b. Onotoa, Gilbert Islands; S. portion of northern main island, about 800 ft. SW. from the offshore end of Government Station jetty and 1200 ft. directly offshore from the lagoon end of the Pacific Science Board campstrip; July 25, 1951; P. E. Cloud; Loc. GOC-22: 1 spec.
- c. Onotoa, Gilbert Islands; SE. end of Rakai Ati reef area; S. side of big windward point of reef near center of atoll; from  $\frac{1}{2}$  mile strip across the reef; August 20, 1951; P. E. Cloud; Loc. GOC-36: 1 spec.
- d. Likiep Atoll, Marshall Islands; from corals growing on submerged sandy sediment on inner edge of reef between Nado and Likiep Islands; December, 1951; F. S. MacNeil; Loc. 830: 1 spec.

Cymo andreossyi (Audouin)

- a. Matuis Beach, NW. Saipan, Marianas Islands; taken mostly from clump of brown Acropora and partly from Pocillopora danicornis cespitosa; December 17, 1948; P. E. Cloud: 2 spec.
- b. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 4 spec.
- c. Onotoa, Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4: 1 spec.
- d. Onotoa, Gilbert Islands; S. portion of northern main island, about 800 ft. SW. from offshore end of Government Station jetty and 1200 ft. directly offshore from lagoon end of Pacific Science Board campstrip; July 25, 1951; P. E. Cloud; Loc. GOC-22: 3 spec.
- e. Onotoa, Gilbert Islands; slightly less than 4 miles N. 85° W. from Aiaki Mancaba in outer lagoon; patch reefs rising above the limesand surface at 14 ft. to within 6 ft. of the surface; July 30, 1951; P. E. Cloud; Loc. GOC-28: 1 spec.
- f. Onotoa, Gilbert Islands; SE. end of Rakai Ati reef area, S. side of big windward point of reef near center of atoll; from  $\frac{1}{2}$  mile strip across the reef; August 20, 1951; P. E. Cloud; Loc. GOC-36: 1 spec.

Cymo deplanatus A. Milne Edwards

- a. Oneroa Island, Rarotia Atoll, Tuamotu Islands; from outer reef pavement area or zone near shore at night; August 4, 1952; J. P. E. Morrison; Loc. 2040: 2 spec.

Cymo quadrilobatus Miers

- a. Onotoa, Gilbert Islands; ocean shelf, from Pocillopora, 25 ft. deep; August 4, 1951; A. H. Banner; Loc. A-4: 1 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-620: 3 spec.

Dacryopilumnus rathbunae Balss

- a. Hagnan Point, Saipan, Marianas Islands; under rock; December 26, 1948; P. E. Cloud: 3 spec.

Daira perlata (Herbst)

- a. Lagoon west of Saipan, Marianas Islands; April 9, 1949; P. E. Cloud; Loc. C-1: 1 spec.
- b. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. C-7a: 2 spec.
- c. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 1 spec.
- d. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-6: 6 spec.
- e. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. D-8: 4 spec.
- f. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 7 spec.
- g. Onotoa, Gilbert Islands; August 4, 1951; A. H. Banner; Loc. A-16: 1 spec.
- h. Onotoa, Gilbert Islands; August 6, 1951; A. H. Banner; Loc. A-17: 1 spec.
- i. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; the small purplish knobby crabs (= Daira) from holes in the boring sea urchin zone of dissected pavement (algae covered); edge of outer reef, a little behind the Lithothamnion ridge; fishing at night; July 23, 1952; J. P. E. Morrison; Loc. 1979-1983: 16 spec.
- j. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from outer reef fishing at night; July 22, 1952; J. P. E. Morrison; Loc. 1972-1973: 1 spec.
- k. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-411: 1 spec.

Domecia glabra Alcock

- a. Lagoon west of Saipan, Marianas Islands; April 7, 1949; P. E. Cloud; Loc. A-11, from coral heads in 4-6 ft. of water: 1 spec.
- b. Onotoa, Gilbert Islands; SE. end of Rakai Ati reef area, S. side of big windward point of reef near center of atoll; from  $\frac{1}{2}$  mile strip across the reef; August 20, 1951; P. E. Cloud; Loc. GOC-36: 1 spec.

Domecia hispida Eydoux & Souleyet

- a. Onotoa, Gilbert Islands; August 4, 1951; A. H. Banner; Loc. A-4: 3 spec.
- b. Onotoa, Gilbert Islands; August 6, 1951; A. H. Banner; Loc. A-14: 1 spec. (from Pocillopora).
- c. Onotoa, Gilbert Islands; SE. end of Rakai Ati reef area, S. side of big windward point of reef near center of atoll; from  $\frac{1}{2}$  mile strip across the reef; August 20, 1951; P. E. Cloud; Loc GOC-36: 3 spec.

- d. Onotoa, Gilbert Islands, about  $3\frac{1}{2}$  miles N.  $31^{\circ}$  W. from Tabuarorae Maneaba near the center of Te Rawa ni Bao, a pass in the S. part of the leeward reef; from thickly set coral masses rising from 15 ft. (sounded at low tide) of water to within about 8 ft. - 10 ft. of the surface locally; August 23, 1951; P. E. Cloud; Loc. GOC-51: 3 spec.

Eriphia scabricula Dana

- a. Onotoa, Gilbert Islands; July 11, 1951; A. H. Banner; Loc. A-4: 2 spec.  
b. Onotoa, Gilbert Islands; July 19, 1951; A. H. Banner; Loc. A-4: 1 spec. (qu.)  
c. Onotoa, Gilbert Islands; July 13, 1951; A. H. Banner; Loc. A-7: 1 spec.  
d. Onotoa, Gilbert Islands; August 2, 1951; A. H. Banner; Loc. A-8-9: 3 spec.  
e. Onotoa, Gilbert Islands; July 20, 1951; A. H. Banner; Loc. A-11: 1 spec.  
f. Onotoa, Gilbert Islands; August 4, 1951; A. H. Banner; Loc. A-10-12: 1 spec.  
g. Onotoa, Gilbert Islands; August 15, 1951; A. H. Banner; Loc. B-8: 4 spec.  
h. Onotoa, Gilbert Islands; November 16, 1951; D. E. Strasburg; Loc. A-I-II: 4 spec.  
i. North end of Ngarumaoa Island, Raroia Atoll Tuamotu Islands; inner reef flats near shore, mostly around larger rocks, active at night; September 2, 1952; J. P. E. Morrison; Loc. 2245: 1 spec.

Eriphia sebana (Shaw & Nodder)

- a. Onotoa, Gilbert Islands; July-August, 1951; A. H. Banner: 1 spec.  
b. Onotoa, Gilbert Islands; August 9, 1951; A. H. Banner; Loc. B-3: 7 spec.  
c. Likiep Atoll, Marshall Islands; from reef between Nado Island and Likiep Island; at night by flashlight, low tide; December 14, 1951; F. S. MacNeil; Loc. 815: 3 spec.  
d. Oneroa Island, Raroia Atoll, Tuamotu Islands; from under rock just below low tide line at night on inner reef flats, S. end of island; August 7, 1952; J. P. E. Morrison; Loc. 2077: 1 spec.  
e. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from outer reef, fishing at night, mostly from near edge of outer reef, a little behind the Lithothamnion ridge; S. end of Island; July 23, 1952; J. P. E. Morrison; Loc. 1979-1983: 1 spec.  
f. North of Kahongi Island, Raroia Atoll, Tuamotu Islands; from outer end of channel and from outer beach pavement flats of outer reef in same area; red eyed crab; July 25, 1952; J. P. E. Morrison; Loc. 1994: 1 spec.  
g. North end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; red eyed rock crab from pavement pool zone of outer reef, eating a Conus sponsalis (crushing it in crushing claw when caught) at just about dusk, at low tide, out of water and active on reef flat at low tide at night apparently; August 31, 1952; J. P. E. Morrison; Loc. 2232: 1 spec.

- h. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-4:  
1 spec.
- i. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-6:  
1 spec.
- j. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-666:  
1 spec.
- k. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-185:  
1 spec.
- l. Southwest corner of Opakea Island, Raroia Atoll, Tuamotu Islands;  
red eyed rock crab from shore of channel at outer reef flat;  
August 27, 1952; J. P. E. Morrison; Loc. 2197: 1 spec.

Etisus (Etisodes) electra (Herbst)

- a. Lagoon west of Saipan, Marianas Islands; April 12, 1949;  
P. E. Cloud; Loc. A-5: 1 spec.
- b. Onotoa, Gilbert Islands; November 16, 1951; D. E. Strasburg;  
Loc. A-I-II: 2 spec.
- c. Onotoa, Gilbert Islands; slightly less than 4 miles N. 85° W. from  
Aiaki Mancaba in outer lagoon; patch reefs rising above the  
limesand surface at 14 ft. to within 6 ft. of the surface;  
July 30, 1951; P. E. Cloud; Loc. GOC-28: 2 spec.

Etisus (Etisodes) molokaiensis (Rathbun)

- a. Saipan, Marianas Islands; 1949; P. E. Cloud; Loc. D-9: 1 spec.

Etisus (Etisodes) dentatus (Herbst)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-7:  
1 spec.
- b. Onotoa, Gilbert Islands; August 15, 1951; A. H. Banner; Loc. B-8:  
1 spec.

Etisus (Etisodes) splendidus Rathbun

- a. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from outer reef  
fishing at night; July 22, 1952; J. P. E. Morrison; Loc. 1972,  
1973: 1 spec.
- b. South end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands;  
from outer reef fishing at night, mostly from near edge of outer  
reef, a little behind the Lithothamnion ridge; July 23, 1952;  
J. P. E. Morrison; Loc. 1981: 1 spec.
- c. South end of Opeaka Island, Raroia Atoll, Tuamotu Islands; red  
crab from inner reef off the S. end; August 17, 1952; J. P. E.  
Morrison; Loc. 2135: 1 spec.

Etisus (Etisodes) spec.

- a. Lagoon west of Saipan, Marianas Islands; April 12, 1949; P. E.  
Cloud; Loc. A-5: 1 spec.

Etisus (Etisus) laevinanus Randall

- a. Onotoa, Gilbert Islands; August 15, 1951; A. H. Banner; Loc. B-8:  
1 spec.

Globopilumnus globosus (Dana)

- a. Nado Island, Likiep Atoll, Marshall Islands; 1951-1952; F. S.  
MacNeil; Loc. 827: 1 spec.



- b. West of Ailuk Island, Ailuk Atoll, Marshall Islands; leeward reef seaward side; 1951-1952; F. S. MacNeil; Loc. 847: 1 spec.
- c. North end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from holes in reef near Lithothamnion ridge; July 9, 1952; J. P. E. Morrison; Loc. 1904: 4 spec.
- d. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from outer reef flats; July 11, 1952; J. P. E. Morrison; Loc. 1920: 1 spec.

Heteropilumnus integer (Miers)

- a. Lagoon west of Saipan, Marianas Islands; May 4, 1949; P. E. Cloud; E-8, from coral rock: 2 spec.

Juxtaxanthias tetraodon (Heller)

- a. South end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from outer reef fishing at night, mostly from near edge of outer reef, a little behind the Lithothamnion ridge; July 23, 1952; J. P. E. Morrison; Loc. 1979-1983: 4 spec.
- b. Oncroa Island, Raroia Atoll, Tuamotu Islands; from outer reef, zone just behind the Lithothamnion ridge or in it, at night; August 4, 1952; J. P. E. Morrison; Loc. 2042: 1 spec.

Lachnopus tahitensis (De Man)

- a. South end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from outer reef fishing at night, mostly from near edge of outer reef, a little behind the Lithothamnion ridge; July 23, 1952; J. P. E. Morrison; Loc. 1979-1983: 2 spec.

Liocarpilodes armiger pacificus Balss

- a. Lagoon west of Saipan, Marianas Islands; April 12, 1949; P. E. Cloud; Loc. A-5: 13 spec.
- b. Lagoon west of Saipan, Marianas Islands; April 27, 1949; P. E. Cloud; Loc. A-7: 2 spec.
- c. Lagoon west of Saipan, Marianas Islands; April 9, 1949; P. E. Cloud; Loc. C-1: 1 spec.
- d. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. C-7a: 4 spec.
- e. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 1 spec.
- f. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. D-7: 3 spec.
- g. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. D-8: 5 spec.

Liocarpilodes integerrimus (Dana)

- a. Lagoon west of Saipan, Marianas Islands; April 27, 1949; P. E. Cloud; Loc. A-7: 2 spec.
- b. Lagoon west of Saipan, Marianas Islands; April 4, 1949; P. E. Cloud; Loc. A-8, taken from dead coral at a depth of about 10 ft.: 2 spec.
- c. Lagoon west of Saipan, Marianas Islands; April 9, 1949; P. E. Cloud; Loc. C-1: 6 spec.
- d. Lagoon west of Saipan, Marianas Islands; April 10, 1949; P. E. Cloud; Loc. C-7a: 1 spec.

- e. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 3 spec.
- f. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-6: 6 spec.
- g. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. D-7: 1 spec.
- h. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. D-8: 13 spec.
- i. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Managaha Island: 12 spec.
- j. Saipan, Marianas Islands; 1949; P. E. Cloud; Loc. C-IX: 1 spec.
- k. Ine Anchorage, Arno Atoll, Marshall Islands; from coral rock of reef flat; July-August 1950; J. H. Wells; Loc. 6: 1 spec.
- l. Onotoa, Gilbert Islands; slightly less than 4 miles N. 85° W. from Aiaki Mancaba in outer lagoon; patch reefs rising above the limesand surface at 14 ft. to within 6 ft. of the surface; July 30, 1951; P. E. Cloud; Loc. GOC-28: 1 spec.

Lophozozymus pulchellus A. Milne Edwards

- a. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. C-7a: 1 spec.

Lophozozymus superbus (Dana)

- a. Homohomo Island, Raroia Atoll, Tuamotu Islands; from under rocks, etc., near the shore; July 21, 1952; J. P. E. Morrison; Loc. 1962: 1 spec.

Lybia tessellata (Latreille)

- a. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 1 spec.
- b. Onotoa, Gilbert Islands; from Pocillopora; August 6, 1951; A. H. Banner; Loc. A-14: 1 spec.
- c. Homohomo Island, Raroia Atoll, Tuamotu Islands; under rocks, etc., near shore; July 21, 1952; J. P. E. Morrison; Loc. 1962: 2 spec.

Lydia annulipes (H. Milne Edwards)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-508: 1 spec.
- b. South Loi Island, Kwajalein Atoll; Marshall Islands; windward reef flat; 1951-1952; F. S. MacNeil; Loc. 894: 1 spec.
- c. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; edge of water at low tide; outer reef flats opposite the village; August 23, 1952; J. P. E. Morrison; Loc. 2176: 3 spec.
- d. North end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; at night at low tide on gravelly lagoon shore near beach rocks; August 2, 1952; J. P. E. Morrison; Loc. 2035: 1 spec.
- e. Puka Puka Island, Raroia Atoll, Tuamotu Islands; landward edge of outer reef flats on and under rocks; August 28, 1952; J. P. E. Morrison; Loc. 2209: 1 spec.

Medaesus elegans A. Milne Edwards

- a. Onotoa, Gilbert Islands; toward S. end of Rakai Ati lee reef stretch, in an area of small coral patches fairly thickly interspersed on limesand and coral debris, the bottom is at depths of 3-4 ft. at low tide; July 26, 1951; P. E. Cloud; Loc. GOC-24: 1 spec.

Medaeus ? ornatus Dana

- a. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. D-7: 2 spec.

Paraxanthias notatus (Dana)

- a. Unai, Finauchuluga, Saipan, Marianas Islands; January 30, 1949; P. E. Cloud: 1 spec.  
b. Lagoon N. of Matuis Beach, NW. Saipan, Marianas Islands; from head of brown Acropora; December 12, 1948; P. E. Cloud: 1 spec.  
c. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-6: 6 spec.  
d. Onotoa, Gilbert Islands; from Pocillopora; August 6, 1951; A. H. Banner; Loc. A-14: 2 spec.  
e. Onotoa, Gilbert Islands; back ridge trough, about 600 ft. offshore from Pacific Science Board camp at the outer margin of the windward reef, just inshore from the algal ridge and surge channels; this part of the reef never dries even at low tide and generally has at least a foot or two of water above it; August 1, 1951; P. E. Cloud; Loc. GOC-32: 2 spec.  
f. Nado Island, Likiep Atoll, Marshall Islands; 1951-1952; F. S. MacNeil; Loc. 827: 8 spec.  
g. South Loi Island, Kwajalein Atoll, Marshall Islands; windward reef flat; 1951-1952; F. S. MacNeil; Loc. 894: 2 spec.

Paraxanthias parvus (Borradaile)

- a. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-6: 22 spec.  
b. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 4 spec.

Paraxanthias ponapensis (Rathbun)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-20: 2 spec.

Phymodius laysani Rathbun

- a. Onotoa, Gilbert Islands; about 9300 ft. N. 30° W. from Tabuarorae Mancaba in S. part of Te Rawa Tekatobibi, a pass through the south end of the leeward reef; from patch reefs rising to an occasional maximum of within 4 ft. of the surface from a bottom sounded at 18 ft.; August 23, 1951; P. E. Cloud; Loc. GOC-53: 1 spec.  
b. Nado Island, Likiep Atoll, Marshall Islands; 1951-1952: F. S. MacNeil; Loc. 827: 1 spec.  
c. West of Miluk Island, Miluk Atoll, Marshall Islands; seaward side of leeward reef; 1951-1952; F. S. MacNeil; Loc. 847: 1 spec.

Phymodius nitidus (Dana)

- a. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-6: 3 spec.

Phymodius obscurus (Lucas)

- a. Onotoa, Gilbert Islands; July-August, 1951; A. H. Banner; Loc. B-5: 2 spec.

Phymodius unguatus (H. Milne Edwards)

- a. Saipan, Marianas Islands; from single large head of Acropora leptocyathus; April 7, 1949; P. E. Cloud: 1 spec.
- b. Matuis Beach, NW. Saipan, Marianas Islands; taken mostly from clump of brown Acropora and partly from Pocillopora damicornis cespitosa; December 17, 1948; P. E. Cloud: 1 spec.
- c. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 3 spec.
- d. Onotoa, Gilbert Islands; August 15, 1951; A. H. Banner; Loc. B-8: 4 spec.
- e. Bikati Island, Butaritari Atoll, Gilbert Islands; about  $\frac{1}{2}$  mile E. offshore from the central part of Bikati Island in pocket of broad area of Heliopora reef, NW. Butaritari; September 3, 1951; P. E. Cloud; Loc. GBC-2: 1 spec.
- f. Otikaheru Island, Raroia Atoll, Tuamotu Islands; brackish enclosed lagoon on lagoon side of island; July 29, 1952; J. P. E. Morrison; Loc. 2015: 2 juv.

Pilodius paumotensis Rathbun

- a. Nado Island, Likiep Atoll, Marshall Islands; 1951-1952; F. S. MacNeil; Loc. 827: 9 spec.

Pilumnus cursor A. Milne Edwards

- a. Lagoon west of Saipan, Marianas Islands; April 12, 1949; P. E. Cloud; Loc. A-5: 1 spec.
- b. Lagoon west of Saipan, Marianas Islands; April 10, 1949; P. E. Cloud; Loc. C-7a: 1 spec.
- c. Lagoon west of Saipan, Marianas Islands; May 4, 1949; P. E. Cloud; Loc. E-8, from coral rock: 1 spec.
- d. Lagoon west of Saipan, Marianas Islands; April 28, 1949; P. E. Cloud; Loc. 2, from  $\frac{1}{2}$  ton block of dead coral-algal rock taken on anchor of LT. 535: 1 spec.

Pilumnus forskali cocculoscens A. Milne Edwards

- a. Onotoa, Gilbert Islands; July 26, 1951; A. H. Banner; Loc. A-6: 1 spec.
- b. Onotoa, Gilbert Islands; August 2, 1951; A. H. Banner; Loc. A-8-9: 1 spec.
- c. Onotoa, Gilbert Islands; tidepool in Heliopora flat, 2 ft. deep; August 1, 1951; A. H. Banner: 2 spec.

Pilumnus tahitensis De Man

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-515: 1 spec.

Platypodia granulosa (Rüppell)

- a. Onotoa, Gilbert Islands; August 8, 1952; A. H. Banner; Loc. B-4: 3 spec.
- b. Onotoa, Gilbert Islands; S. portion of northern main island, about 800 ft. SW. from the offshore end of Government Station jetty and 1200 ft. directly offshore from the lagoon end of the Pacific Science Board campstrip; July 25, 1951; P. E. Cloud; Loc. GOC-22: 1 spec.

Platyrodia senigranosa (Heller)

- a. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 1 spec.
- b. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 1 spec.

Pseudozium caystrus (H. Milne Edwards)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-668: 1 spec.
- b. South Loi Island, Kwajalein Atoll, Marshall Islands; windward reef flat; 1951-1952; F. S. MacNeil; Loc. 894: 1 skin.
- c. Takoko Island, Raroia Atoll, Tuamotu Islands; under stones about high tide line or a little below; July 22, 1952; J. P. E. Morrison; Loc. 1968: 1 spec.

Xanthias lamarcki (H. Milne Edwards)

- a. Lagoon west of Saipan, Marianas Islands; April 12, 1949; P. E. Cloud; Loc. A-5: 1 spec.
- b. Lagoon west of Saipan, Marianas Islands; April 7, 1949; P. E. Cloud; Loc. A-11, from coral heads, 4-6 ft. water: 1 spec.
- c. Lagoon west of Saipan, Marianas Islands; April 19, 1949; P. E. Cloud; Loc. F-X: 2 spec.
- d. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 3 spec.
- e. Onotoa, Gilbert Islands; July 12, 1951; A. H. Banner; Loc. A-1: 1 spec.
- f. Onotoa, Gilbert Islands; July 11, 1951; A. H. Banner; Loc. A-4: 4 spec.
- g. Onotoa, Gilbert Islands; July 19, 1951; A. H. Banner; Loc. A-4: 1 spec. (qu.)
- h. Onotoa, Gilbert Islands; August 2, 1951; A. H. Banner; Loc. A-8-9: 2 spec.
- i. Onotoa, Gilbert Islands; August 4, 1951; A. H. Banner; Loc. A-10-12: 3 spec.
- j. Onotoa, Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4: 7 spec.
- k. Onotoa, Gilbert Islands; August 15, 1951; A. H. Banner; Loc. B-8: 1 spec.
- l. Onotoa, Gilbert Islands; November 16, 1951; D. E. Strasburg: 1 spec.
- m. Homohemo Island, Raroia Atoll, Tuamotu Islands; from under rocks, etc., near shore; July 21, 1952; J. P. E. Morrison; Loc. 1962: 1 spec.
- n. South end of Ngarumoa Island, Raroia Atoll, Tuamotu Islands; outer reef fishing at night, mostly from near edge of outer reef, a little behind the Lithothamnion ridge; July 23, 1952; J. P. E. Morrison; Loc. 1979-1983: 1 spec.
- o. Lagoon west of Saipan, Marianas Islands; April 10, 1949; P. E. Cloud; Loc. C-7a: 1 spec.

Xanthias punctatus (H. Milne Edwards)

- a. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-6: 1 spec.

Xantho exaratus (H. Milne Edwards)

- a. Onotoa, Gilbert Islands; July 12, 1951; A. H. Banner; Loc. A-1: 6 spec.
- b. Onotoa, Gilbert Islands; July 13, 1951; A. H. Banner; Loc. A-2: 1 spec.
- c. South end of Oneroa Island, Raroia Atoll, Tuamotu Islands; white rock crab from inner reef flats just below low tide line; August 7, 1952; J. P. E. Morrison; Loc. 2078: 1 spec.

Xantho gracilis (Dana)

- a. Opaoka Island, Raroia Atoll, Tuamotu Islands; speckled crab under rocks below low tide, SE. point of island; August 26, 1952; J. P. E. Morrison; Loc. 2196: 1 spec.

Xantho sanguineus (H. Milne Edwards)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-46: 4 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-48: 1 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-667: 3 spec.
- d. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-7: 1 spec.
- e. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-192: 1 spec.
- f. Onotoa, Gilbert Islands; July 12, 1951; A. H. Banner; Loc. A-1: 6 spec.
- g. Onotoa, Gilbert Islands; July 13, 1951; A. H. Banner; Loc. A-2: 16 spec.
- h. Onotoa, Gilbert Islands; July 19, 1951; A. H. Banner; Loc. A-4: 6 spec. (qu.)
- i. Onotoa, Gilbert Islands; July 11, 1951; A. H. Banner; Loc. A-4: 16 spec.
- j. Onotoa, Gilbert Islands; July 26, 1951; A. H. Banner; Loc. A-6: 1 spec.
- k. Onotoa, Gilbert Islands; August 2, 1951; A. H. Banner; Loc. A-7: 1 spec.
- l. Onotoa, Gilbert Islands; August 7, 1951; A. H. Banner; Loc. B-3: 2 spec.
- m. Onotoa, Gilbert Islands; November 16, 1951; D. E. Strasburg; Loc. A-I-II: 35 spec.
- n. Lac Island, Lac Atoll, Marshall Islands; windward side under rocks; 1951-1952; F. S. MacNeil; Loc. 877: 2 spec.

Zosimus aeneus (L.)

- a. Ailuk Atoll, Marshall Islands; native collectors; 1951-1952; F. S. MacNeil; Loc. 855: 1 spec.
- b. Leeward side of Ailuk Island, Ailuk Atoll, Marshall Islands; near west end of island; 1951-1952; F. S. MacNeil; Loc. 841: 2 spec.
- c. Ngarunaoa Island, Raroia Atoll, Tuamotu Islands; spotted rock crabs brought in from the outer reef; July 18, 1952; J. P. E. Morrison; Loc. 1950: 2 spec.

- d. Honohono Island, Raroia Atoll, Tuamotu Islands; spotted crab from pool in boring sea urchin zone of outer reef flats; July 21, 1952; J. P. E. Morrison; Loc. 1963: 1 spec.
- e. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; outer reef fishing at night; July 22, 1952; J. P. E. Morrison; Loc. 1972, 1973: 3 spec.
- f. South end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; outer reef fishing at night, mostly from near edge of outer reef, a little behind the Lithothamnion ridge; July 23, 1952; J. P. E. Morrison; Loc. 1979-1983: 14 spec.
- g. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-503: 1 spec.
- h. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-512: 1 spec.

Family Gonoplacidae

Subfamily Pseudorhombilinae

Litocheira aranca Tesch

- a. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. D-8: 1 spec.

Family Pinnotheridae

Xanthasia murigera White

- a. Ujae lagoon, Ujae Atoll, Marshall Islands; from inside of the shell of a large live Tridacna; 1951, 1952; F. S. MacNeil; Loc. 923: 2 females, 1 male.

Family Ocypodidae

Macrophthalmus bosci (Audouin)

- a. Onotoa, Gilbert Islands; July 19, 1951; A. H. Banner; Loc. A-4: 3 spec.
- b. Onotoa, Gilbert Islands; November 16, 1951; D. E. Strasburg; Loc. A-I-II: 9 spec.

Ocypode ceratophthalma (Pallas)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-680: 1 spec.
- b. Onotoa, Gilbert Islands; July 26, 1951; A. H. Banner; Loc. B 1-6: 2 spec.
- c. Onotoa, Gilbert Islands; sand beach, ocean side; August 1951; A. H. Banner: 4 spec.
- d. Miluk Island, Miluk Atoll, Marshall Islands; from inner rubble flat on seaward reef, at night; December 24, 1951; F. S. MacNeil; Loc. 835: 1 spec.
- e. Taka Atoll, Marshall Islands; gray land crab; December 5-9, 1951; F. R. Fosberg; Loc. 58: 1 spec.
- f. Englamij Island, Ujae Atoll, Marshall Islands; running on sandflat above high tide level; March 9, 1952; F. R. Fosberg; Loc. 20: 1 spec.

- g. Bikar Island, Bikar Atoll, Marshall Islands; above high tide level on sand at night; August 6, 1952; F. R. Fosberg; Loc. 1078: 2 spec.
- h. Bikar Island, Bikar Atoll, Marshall Islands; on sand above high tide level; August 8, 1952; F. R. Fosberg; Loc. 1083, 1084: 2 spec.
- i. North end of Oneroa Island, Raroia Atoll, Tuamotu Islands; ghost crab dug out of sand beach (intertidal) in daytime, lagoon shore; August 7, 1952; J. P. E. Morrison; Loc. 2080: 2 spec.

Ocypode cordimana Desmarest

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-149: 1 spec.
- b. Onotoa, Gilbert Islands; sand beach, ocean side; August 1951; A. H. Banner: 1 spec.
- c. Utirik Island, Utirik Atoll, Marshall Islands; burrowing white land crab, dug out of burrows in the sand flat, west part of island; December 1, 1951; F. R. Fosberg; Loc. 49: 3 spec.
- d. Jemo Island, Marshall Islands; land crab found generally over the island; December 18-22, 1951; F. R. Fosberg; Loc. 71: 2 spec.
- e. Ulika Island, Ailuk Atoll, Marshall Islands; gray land crab attracted to coconut meat in coconut plantation; December 29, 1951; F. R. Fosberg; Loc. 79: 1 spec.
- f. Almeni Island, Bikar Atoll, Marshall Islands; on sand; August 9, 1952; F. R. Fosberg; Loc. 1082: 1 spec.

Ocypode spec. (juv.)

- a. Bikar Island, Bikar Atoll, Marshall Islands; above high tide level on sand at night; August 6, 1952; F. R. Fosberg; Loc. 1076: 1 juv.
- b. Ailuk Atoll, Marshall Islands; islet N. of Baojen; on top of beach; December 30-31, 1951; F. R. Fosberg; Loc. 503: 1 juv.

Uca gaimardi (H. Milne Edwards)

- a. West of Port Phaeton, on S. side of Taravao Isthmus, Tahiti, Society Islands; grassy and fern covered edge of swamp, black mud, water brackish or incomplete salt; June 21, 1952; J. P. E. Morrison; Loc. 1816: 1 spec.

Uca tetragonon (Herbst)

- a. Onotoa, Gilbert Islands; August 10, 1951; A. H. Banner; Loc. B-6: 9 spec.
- b. South end of Oneroa Island, Raroia Atoll, Tuamotu Islands; fiddler crabs from holes in white sand covered (filmed) pavement rock (intertidal), rock flats on lagoon side; August 7, 1952; J. P. E. Morrison; Loc. 2081: 31 spec.

Family Grapsidae

Subfamily Grapsinae

Geograpsus crinipes Dana

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-3: 1 spec.
- b. Bock Island, Ujae Atoll, Marshall Islands; gray crab in hole in Pisonia trunk; February 23, 1952; F. R. Fosberg; Loc. 7: 1 spec.



- c. Alle Island, Ujae Atoll, Marshall Islands; large gray crab under loose bark of rotten coconut log; March 10, 1952; F. R. Fosberg; Loc. 11: 1 spec.
- d. Bock Island, Ujae Atoll, Marshall Islands; gray crab in coconut trash; February 17-20, 1952; F. R. Fosberg; Loc. 21: 1 spec.
- e. Utirik Island, Utirik Atoll, Marshall Islands; land crab; December 1, 1951; F. R. Fosberg; Loc. 50: 1 spec.
- f. Jemo Island, Marshall Islands; gray land crab in burrows under guano layer in Fisonia grove; December 18-22, 1951; F. R. Fosberg; Loc. 72: 2 spec.
- g. Islet N. of Baojen, Ailuk Atoll, Marshall Islands; flat gray crab, well above high tide mark; December 31, 1951; F. R. Fosberg; Loc. 78: 1 spec.
- h. Lae Atoll, Marshall Islands; gray crab; January 6-10, 1952; F. R. Fosberg; Loc. 88: 1 spec.
- i. Bikar Island, Bikar Atoll, Marshall Islands; above high tide level on sand at night; August 6, 1952; F. R. Fosberg; Loc. 1079: 1 spec.
- j. Bikar Island, Bikar Atoll, Marshall Islands; in small Messerschmidia tree; August 6, 1952; F. R. Fosberg; Loc. 1080: 1 spec.
- k. Takeke Island, Raroia Atoll, Tuamotu Islands; July 22, 1952; J. P. E. Morrison; Loc. 1968: 1 juv.
- l. North end of Oneroa Island, Raroia Atoll, Tuamotu Islands; brown rock crab of lagoon shore, in contrast to red painted one of hard outer reef rocks; August 8, 1952; J. P. E. Morrison; Loc. 2095: 2 spec.

Geograpsus grayi (H. Milne Edwards)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-416: 1 juv.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-507: 2 spec.
- c. Alle Island, Ujae Atoll, Marshall Islands; land crab; March 10, 1952; F. R. Fosberg; Loc. 19: 2 spec.
- d. Bock Island, Ujae Atoll, Marshall Islands; small gray crabs; February 17-20, 1952; F. R. Fosberg; Loc. 22: 2 spec.
- e. Wotho Island, Wotho Atoll, Marshall Islands; purple land crab in coconut trash, judging by number of holes must be common all over island; February 14-15, 1952; F. R. Fosberg; Loc. 29: 1 spec.
- f. Lojiren Island, Taka Atoll, Marshall Islands; dark purple land crab under boulder in Fisonia grove; December 7, 1951; F. R. Fosberg; Loc. 54: 1 spec.
- g. Watwerok Island, Taka Atoll, Marshall Islands; land crab, gray brown, legs banded with lighter gray, under rotting coconut log; December 9, 1951; F. R. Fosberg; Loc 56: 1 juv.
- h. Lae Atoll, Marshall Islands; land crabs in openings under stones; January 6-10, 1952; F. R. Fosberg; Loc. 87: 4 spec.
- i. Wake Island, Wake Atoll; under sticks and stones in wooded area; April 20, 1952; F. R. Fosberg; Loc. 91: 4 spec.
- j. Takeke Island, Raroia Atoll, Tuamotu Islands; true land crab from under rock on floor of open forest; July 11, 1952; J. P. E. Morrison; Loc. 1912: 1 spec.
- k. Mataira Island, Raroia Atoll, Tuamotu Islands; small land crab at night; July 16, 1952; J. P. E. Morrison; Loc. 1945: 1 spec.

Geograpsus lividus storni De Man

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-399:  
1 spec.

Grapsus longitarsis Dana

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-400:  
1 spec.  
b. Onotoa, Gilbert Islands; July-August 1951; A. H. Banner: 4 spec.  
c. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; smaller species  
of shore rock crab, edge of water at low tide, outer reef flats  
opposite the village; August 23, 1952; J. P. E. Morrison; Loc.  
2176: 10 spec.  
d. North end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands;  
inner reef flats near shore mostly around larger rocks, active  
at night; September 2, 1952; J. P. E. Morrison; Loc. 2245:  
2 spec. (1 ovig.).

Grapsus tenuicrustatus (Herbst)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-704:  
1 spec.  
b. Onotoa, Gilbert Islands; seaward reef; July-August, 1951; A. H.  
Banner: 3 spec.  
c. Onotoa, Gilbert Islands; windward reef; August 30, 1951; P. E.  
Cloud: 3 spec.  
d. Bock Island, Ujae Atoll, Marshall Islands; in hole in Messerschmidia  
trunk; February 20, 1952; F. R. Fosberg; Loc. 6: 1 spec.  
e. Jemo Island, Marshall Islands; on rocks above high tide level;  
December 18-22, 1951; F. R. Fosberg; Loc. 65: 1 spec.  
f. Passage between Kamome and Brije, Pokak Atoll, Marshall Islands;  
above high tide on rocks; July 23, 1952; F. R. Fosberg; Loc. 1067:  
1 spec.  
g. South Island, Pokak Atoll, Marshall Islands; abundant on rocks  
just above water, seeming to avoid going into water except when  
pursued; often seen above high tide level; July 26, 1952; F. R.  
Fosberg; Loc. 1068: 1 spec.  
h. Passage between Almeni and Jaliklik, Bikar Atoll, Marshall Islands;  
on beach rock just above high tide; August 9, 1952; F. R. Fosberg;  
Loc. 1081: 1 spec.  
i. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; young red shore  
rock crab, edge of water at low tide; outer reef flats opposite  
the village; August 23, 1952; J. P. E. Morrison; Loc. 2176:  
3 spec.

Metopograpsus thukuhar (Owen)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-400:  
5 spec.

Pachygrapsus minutus A. Milne Edwards

- a. Onotoa, Gilbert Islands; July 19, 1951; A. H. Banner; Loc. A-4:  
1 spec.

Pachygrapsus planifrons De Man

- a. Onotoa, Gilbert Islands; July 12, 1951; A. H. Banner; Loc. A-1:  
1 spec.

- b. Onotoa, Gilbert Islands; July 19, 1951; A. H. Banner; Loc. A-4: 5 spec. (qu.)
- c. Onotoa, Gilbert Islands; July 26, 1951; A. H. Banner; Loc. A-6: 1 spec.
- d. Onotoa, Gilbert Islands; July 13, 1951; A. H. Banner; Loc. A-7: 1 spec.
- e. Onotoa, Gilbert Islands; November 16, 1951; D. E. Strasburg; Loc. A-I-II: 34 spec.
- f. North end of Oneroa Island, Raroia Atoll, Tuamotu Islands; rocks and gravel just below low tide line on gravel flats along inner reef near lagoon shore; August 6, 1952; J. P. E. Morrison; Loc. 2073: 1 spec.

Pachygrapsus plicatus (H. Milne Edwards)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-665: 1 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-666: 6 spec.
- c. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from outer reef flats; July 11, 1952; J. P. E. Morrison; Loc. 1920: 3 spec.
- d. Oneroa Island, Raroia Atoll, Tuamotu Islands; small rock crabs from low tide line or just above (wet area) on large reef block about 40 yds. out on reef pavement area from shore, collected at night; August 5, 1952; J. P. E. Morrison; Loc. 2055: 9 spec.

Pachygrapsus spec.

- a. Homohomo Island, Raroia Atoll, Tuamotu Islands; under rocks, etc., near shore; July 21, 1952; J. P. E. Morrison; Loc. 1962: 1 spec.

Subfamily Varuninae

Pseudograpsus albus Stimpson

- a. Takoke Island, Raroia Atoll, Tuamotu Islands; under stones about high tide line, or little below; July 22, 1952; J. P. E. Morrison; Loc. 1968: 7 spec.

Subfamily Sesarinae

Cyclograpsus longipes Stimpson

- a. Takoke Island, Raroia Atoll, Tuamotu Islands; under stones about high tide line, or little below; July 22, 1952; J. P. E. Morrison; Loc. 1968: 4 spec.
- b. Ohava Island, Raroia Atoll, Tuamotu Islands; under rocks, etc., on lagoon side of channel or incomplete channel; July 27, 1952; J. P. E. Morrison; Loc. 1997: 3 spec.

Cyclograpsus parvulus De Man

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt: 5 spec.
- b. Ohava Island, Raroia Atoll, Tuamotu Islands; under rocks, etc., on lagoon side of channel or incomplete channel; July 27, 1952; J. P. E. Morrison; Loc. 1997: 5 spec.

Metasesarma aubryi A. Milne Edwards

- a. Arno Atoll; 1950; R. W. Hiatt; Loc. E 1-65a: 2 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-418: 1 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-424: 2 spec.
- d. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt: 2 spec.
- e. Bock Island, Ujae Atoll, Marshall Islands; from 4-6 ins. beneath rubble surface in interstices between coconut trash, near lagoon; February 20, 1952; F. R. Fosberg; Loc. 950: 1 spec.

Metasesarma rousseauxi H. Milne Edwards

- a. Matuis Beach, NW. Saipan, Marianas Islands; December 19, 1948; F. E. Cloud: 2 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-418: 1 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-662: 3 spec.
- d. Lato Island, Likiep Atoll, Marshall Islands; small gray land crabs in beach drift well above high tide mark; December 12-15, 1951; F. R. Fosberg; Loc. 63: 2 spec.
- e. Lojjaiong Island, Kwajalein Atoll, Marshall Islands; in interstices in cut bank of small pebbles above high tide level; January 15, 1952; F. R. Fosberg; Loc. 664: 18 spec.
- f. Lojjairok Island, Kwajalein Atoll, Marshall Islands; from decayed spot in trunk of Messerschmidia argentea tree about 2 m from ground; January 15, 1952; F. R. Fosberg; Loc. 682: 1 spec.
- g. Tepaturea, E. side (windward shore) of Taravao Isthmus, Tahiti, Society Islands; under cobbles; June 21, 1952; J. P. E. Morrison; Loc. 1815: 4 spec.

Sesarma rotundatum Hess

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-413: 1 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-18: 2 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-172: 1 spec.
- d. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt: 3 spec.
- e. Ujae Island, Ujae Atoll, Marshall Islands; orange-gray crab from hole in live coconut trunk; March 13, 1952; F. R. Fosberg; Loc. 16: 1 spec.

Subfamily Flagusinae

Percnon abbreviatum (Dana)

- a. South end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from outer reef fishing at night, mostly from near edge of outer reef, a little behind the Lithothamnion ridge; July 23, 1952; J. P. E. Morrison; Loc. 1979-1983: 1 spec.

Percnon planissimum (Herbst)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-10: 1 spec.

- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-42:  
6 spec.
- c. Onotoa, Gilbert Islands; July 20, 1951; A. H. Banner; Loc. A-11:  
4 spec.
- d. Onotoa, Gilbert Islands; August 2, 1951; A. H. Banner; Loc. A-8-9:  
1 spec.

Plagusia speciosa Dana

- a. West of Ailuk Island, Ailuk Atoll, Marshall Islands; seaward side of leeward reef; 1951-1952; F. S. MacNeil; Loc. 847: 1 spec.
- b. South end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from outer reef fishing at night, mostly near edge of outer reef, a little behind the Lithothamnion ridge; July 23, 1952; J. P. E. Morrison; Loc. 1979-1983: 5 spec.
- c. Tenuku Haupapatea Island, Raroia Atoll, Tuamotu Islands; from algae zone just behind outer reef edge (boring urchin zone), outer reef flats; September 5, 1952; J. P. E. Morrison; Loc. 2269: 1 spec.

Family Gecarcinidae

Cardisoma carnifex (Herbst)

- a. Onotoa, Gilbert Islands; land crab; July-August, 1951; A. H. Banner: 1 spec.
- b. Tehakapikipiki Island, Raroia Atoll, Tuamotu Islands; Pemphis land crabs (Papaka Tupa) from land at night; July 28, 1952; J. P. E. Morrison; Loc. 2010: 6 spec.
- c. North end Oneroa Island, Raroia Atoll, Tuamotu Islands; small true land crab collected at night; August 7, 1952; J. P. E. Morrison; Loc. 2080: 1 spec.
- d. North end of Oneroa Island, Raroia Atoll, Tuamotu Islands; Pemphis crabs (Papaka Tupa) from camp area near lagoon; August 8, 1952; J. P. E. Morrison; Loc. 2094: 2 spec.
- e. Oteteu Island Raroia Atoll, Tuamotu Islands; Pemphis land crabs (Papaka Tupa), burrows all over lower ground under Pemphis; August 21, 1952; J. P. E. Morrison; Loc. 2152: 2 spec.

Cardisoma rotundum (Quoy & Gaimard)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-123: 1 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-514: 1 spec.
- c. Bock Island, Ujae Atoll, Marshall Islands; purple land crab from coconut trash in holes in rubble in mixed forest and edge of plantation; February 17-20, 1952; F. R. Fosberg; Loc. 23: 2 spec.

Epigrapsus politus Heller

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-665: 5 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-187: 2 spec.

- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-401:  
3 spec.
- d. Tapatuea, E. side (windward shore) of Taravao Isthmus, Tahiti,  
Society Islands; under cobbles; June 21, 1952; J. P. E. Morrison;  
Loc. 1815: 3 spec.

Gecarcoidea lalandei H. Milne Edwards

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-423:  
1 spec.
- b. Bock Island, Ujae Atoll, Marshall Islands; purple land crab in  
coconut trash in holes in rubble in mixed forest and edge of  
plantation; February 17-20, 1952; F. R. Fosberg; Loc. 23: 1 spec.

Family Hapalocarcinidae

Hapalocarcinus marsupialis Stimpson

- a. Onotoa, Gilbert Islands; South portion of northern main island,  
about 800 ft. SW. from the offshore end of Government Station  
jetty and 1200 ft. directly offshore from the lagoon end of the  
Pacific Science Board camp strip; July 25, 1951; P. E. Cloud;  
Loc. GOC-22: 1 ovig. female in coral.

II. Anomura

HIPPIDEA

Family Albuneidae

Albunea elicti Benedict

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-504:  
1 spec.

Family Hippidae

Hippa adactyla Fabricius

- a. At mouth of Anonu river, about 14 km. E. of Papeete, Tahiti, Society  
Islands; mole crabs from black volcanic sand, intertidal;  
September 15, 1952; J. P. E. Morrison; Loc. 2294: 1 spec.

Hippa ovalis (H. Milne Edwards)

- a. At mouth of Anonu river, about 14 km. E. of Papeete, Tahiti,  
Society Islands; mole crabs from black volcanic sand, intertidal;  
September 15, 1952; J. P. E. Morrison; Loc. 2294: 2 spec.

Hippa pacifica (Dana)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-155:  
5 spec.
- b. Ine lagoon, Arno Atoll, Marshall Islands; in sand on beach at high  
tide; June-August 1950; J. H. Wells; Loc. 32: 4 spec.

PLIGURIDEA

Family Coenobitidae

Birgus latro (L.)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-419:  
1 spec.
- b. Onotoa, Gilbert Islands; July-August 1951; A. H. Banner: 1 spec.
- c. Rua Island, Ujae Atoll, Marshall Islands; in burrow under 2 inches  
of peat in Pisonia forest; February 23, 1952; F. R. Fosberg;  
Loc. 1: 1 spec.
- d. Wotho Island, Wotho Atoll, Marshall Islands; in coconut trash;  
February 15, 1952; F. R. Fosberg; Loc. 26: 1 spec.
- e. Encllap Island, Ujelang Atoll, Marshall Islands; burrowing in  
boulder debris; natives call it "baru" and insist that it climbs  
coconut trees, they say that it is common on Encllap and Kalo  
Islands; February 4, 1952; F. R. Fosberg; Loc. 36: 1 spec.
- f. Mejurwon Island, Wotho Atoll, Marshall Islands; abundant; March 22,  
1952; F. R. Fosberg; Loc. 1448: 1 spec.
- g. Kahongi Island, Raroia Atoll, Tuamotu Islands; coconut crab from  
Pandanus fruit at night (rare at Raroia because always eaten by  
natives); August 12, 1952; J. P. E. Morrison; Loc. 2113: 1 spec.

Coenobita brevinanus Dana

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-417:  
4 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-419:  
3 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-426:  
3 spec.
- d. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-428:  
2 spec.
- e. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-438:  
3 spec.
- f. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-589:  
4 spec.
- g. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-658:  
1 spec.
- h. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-660:  
1 spec.
- i. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-4:  
1 spec.
- j. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-150:  
2 spec.
- k. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-403:  
1 spec.
- l. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-513:  
2 spec.
- m. Bock Island, Ujae Atoll, Marshall Islands; from coconut trash;  
February 20, 1952; F. R. Fosberg; Loc. 10: 8 spec.
- n. Alle Island, Ujae Atoll, Marshall Islands; around freshly cut  
coconuts and in and around rotten coconut log in daytime;  
March 10, 1952; F. R. Fosberg; Loc. 12-15: 1 juv.

- o. Kalo Island, Ujelang Atoll, Marshall Islands; on ground; February 4, 1952; F. R. Fosberg; Loc. 41: 1 spec.
- p. Mataira Island, Raroia Atoll, Tuamotu Islands; purple clawed land hermit crabs feeding at night on opened green coconuts (juice); July 16, 1952; J. P. E. Morrison; Loc. 1940-1945: 10 spec.
- q. Oneroa Island, Raroia Atoll, Tuamotu Islands; purple land hermit crabs (uncommon); August 7, 1952; J. P. E. Morrison; Loc. 2079: 2 spec.

Coenobita carnoscens Dana

- a. Ujelang Island, Ujelang Atoll, Marshall Islands; on ground; February 6-7, 1952; F. R. Fosberg; Loc. 43: 1 spec. (juv.).

Coenobita perlatus H. Milne Edwards

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-171: 1 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-427: 3 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-592: 1 spec.
- d. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-4: 3 spec.
- e. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-17: 1 spec.
- f. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-150: 1 spec.
- g. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-398: 1 spec.
- h. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-403: 2 spec.
- i. Onotoa, Gilbert Islands; August 1951; A. H. Banner: 1 spec.
- j. Onotoa, Gilbert Islands; Pacific Science Board camp area; July 30, 1951; P. E. Cloud: 96 spec.
- k. Lac Island, Lac Atoll, Marshall Islands; lagoon side, beach; 1951-1952; F. S. MacNeil; Loc. 866: 12 spec. (juv.).
- l. Torrutj Island, Kwajalein Atoll, Marshall Islands; 1951-1952; F. S. MacNeil; Loc. 900: 66 spec.
- m. Wotho Atoll, Marshall Islands; 1951-1952; F. S. MacNeil; Loc. 913: 12 spec.
- n. Rua Island, Ujae Atoll, Marshall Islands; large red hermit crabs under rotting logs; February 23, 1952; F. R. Fosberg; Loc. 2: 3 spec.
- o. Rua Island, Ujae Atoll, Marshall Islands; under rotting coconut logs; February 23, 1952; F. R. Fosberg; Loc. 3: 13 juv.
- p. Bock Island, Ujae Atoll, Marshall Islands; from coconut trash; February 20, 1952; F. R. Fosberg; Loc. 9: 1 spec.
- q. Alle Island, Ujae Atoll, Marshall Islands; around freshly cut coconuts and in and around rotten coconut log in daytime; March 10, 1952; F. R. Fosberg; Loc. 12-15: 174 juvs.
- r. Alle Island, Ujae Atoll, Marshall Islands; in and around coconut log in daytime; colors vary from scarlet to brick red to brownish-red; March 10, 1952; F. R. Fosberg; Loc. 17: 6 spec.
- s. Kabben Island, Wotho Atoll, Marshall Islands; March 20, 1952; F. R. Fosberg; Loc. 25: 1 juv.



- t. Wotho Island, Wotho Atoll, Marshall Islands; journeying toward sea, ready to lay eggs; February 14-15, 1952; F. R. Fosberg; Loc. 27: 1 ovig. female.
- u. Wotho Island, Wotho Atoll, Marshall Islands; attracted to open nuts near camp; February 14-15, 1952; F. R. Fosberg; Loc. 32: 13 juv.
- v. Jerko Island, Ujelang Atoll, Marshall Islands; climbing in Scaevola bush, 2 m.; February 4, 1952; F. R. Fosberg; Loc. 42: 1 spec.
- w. Utirik Island, Utirik Atoll, Marshall Islands; eating meat from split young eating nuts; December 1, 1951; F. R. Fosberg; Loc. 47: 5 spec.
- x. Utirik Island, Utirik Atoll, Marshall Islands; eating meat from split young nuts; December 1, 1952; F. R. Fosberg; Loc. 48: 12 juv.
- y. Taka Island, Taka Atoll, Marshall Islands; between stilt roots of Pandanus; December 5, 1951; F. R. Fosberg; Loc. 51: 4 spec.
- z. Taka Island, Taka Atoll, Marshall Islands; between stilt roots of Pandanus tree; December 5, 1951; F. R. Fosberg; Loc. 59: 2 spec. (semi-adult).
- aa. Lato Island, Likiep Atoll, Marshall Islands; in beach drift, well above high tide mark; December 12-15, 1951; F. R. Fosberg; Loc. 62: 4 juv.
- bb. Jemo Island, Marshall Islands; at top of beach; December 18-22, 1951; F. R. Fosberg; Loc. 66: 5 juv.
- cc. Jemo Island, Marshall Islands; at top of beach; December 18-22, 1951; F. R. Fosberg; Loc. 67: 4 juv.
- dd. Baojen Island, Ailuk Atoll, Marshall Islands; above high tide on sand; December 30, 1951; F. R. Fosberg; Loc. 77: 22 juv.
- ee. Enobuoj Island, Kwajalein Atoll, Marshall Islands; around a sack of rotting copra thrown up on the beach; January 19, 1952; F. R. Fosberg; Loc. 82: 4 juv.
- ff. Enobuoj Island, Kwajalein Atoll, Marshall Islands; around a sack of rotting copra thrown up on the beach; January 19, 1952; F. R. Fosberg; Loc. 83: 2 spec.
- gg. Lae Island, Lae Atoll, Marshall Islands; attracted to open coconuts at night; January 6-10, 1952; F. R. Fosberg; Loc. 89: 2 spec.
- hh. Islet N. of Baojen, Ailuk Atoll; Marshall Islands; from beating Perphis; December 31, 1951; F. R. Fosberg; Loc. 543: 1 spec.
- ii. Ailuk Island, Ailuk Atoll, Marshall Islands; from inner rubble flat on seaward reef, at night; December 24, 1951; F. R. Fosberg; Loc. 835: 2 spec. (semi-adult).
- jj. Sibylla Island, Pokak Atoll, Marshall Islands; July 20-26, 1952; very common, generally nocturnal, hiding under edges of large boulders during the day, going both lagoon and seaward beaches beginning shortly before sundown, inhabiting principally Turbo lajonkairi shells; July 20-26, 1952; F. R. Fosberg; Loc. 1065: 5 spec.
- kk. South Island, Pokak Atoll, Marshall Islands; in cavities and crevices in great boulders on land well above high tide level; July 26, 1952; F. R. Fosberg; Loc. 1069: 10 spec.
- ll. Sibylla Island, Pokak Atoll, Marshall Islands; on land; July 27, 1952; F. R. Fosberg; Loc. 1070: 5 spec.

- mm. Pokak Island, Pokak Atoll, Marshall Islands; beach above high tide; July 26, 1952; F. R. Fosberg; Loc. 1071: 10 spec.
- nn. Tiny Island between Sibylla and Pokak, Pokak Atoll; in cavities and crevices in great boulders above high tide; July 26, 1952; F. R. Fosberg; Loc. 1072: 17 spec.
- oo. Bikar Island, Bikar Atoll, Marshall Islands; 3 without shells taken on beach at about sunset when they were visiting the ocean; one with shell taken after dark eating baby turtle (no. 1073); August 6, 1952; F. R. Fosberg; Loc. 1074: 4 spec.
- pp. Bikar Island, Bikar Atoll, Marshall Islands; climbing in Messerschmidia tree; August 7, 1952; F. R. Fosberg; Loc. 1086: 2 spec.
- qq. Bikar Island, Bikar Atoll, Marshall Islands; under turtle bones and crawling about nearby on sand, well above high tide level outside forest; August 7, 1952; F. R. Fosberg; Loc. 1087-1089: 15 spec.
- rr. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from middle to inner zone of outer reef flats opposite village; July 6, 1952; J. P. E. Morrison; Loc. 1866: 1 spec.
- ss. Takoke Island, Raroia Atoll, Tuamotu Islands; from leaves, etc. floor of forest; July 11, 1952; J. P. E. Morrison; Loc. 1910, 1911: 38 spec.
- tt. Tahuna riri Island, Raroia Atoll, Tuamotu Islands; lagoon beach, sand; Terebra shells; July 27, 1952; J. P. E. Morrison; Loc. 2004: 2 spec.
- uu. Oneroa Island, Raroia Atoll, Tuamotu Islands; from native house area, small, selected for shells; August 2, 1952; J. P. E. Morrison; Loc. 2027: 68 spec.
- vv. Oneroa Island, Raroia Atoll, Tuamotu Islands; large red hermit crabs (common); August 7, 1952; J. P. E. Morrison; Loc. 2079: 4 spec.
- ww. Mataira Island, Raroia Atoll, Tuamotu Islands; outer reef flats; July 16, 1952; J. P. E. Morrison; Loc. 1938: 1 spec.
- xx. North side of Tekatikati Island, Raroia Atoll, Tuamotu Islands; pavement and sandy patches between coral (and algae) patches in the channel from near lagoon to middle; August 8, 1952; J. P. E. Morrison; Loc. 2088: 1 spec.
- yy. North end Oneroa Island, Raroia Atoll, Tuamotu Islands; outer reef and drift; August 8, 1952; J. P. E. Morrison; Loc. 2093: 1 spec.
- zz. Okaea Island, Raroia Atoll, Tuamotu Islands; from rock flat just below or at (?) high tide line on wide rock flat on oceanic side; August 22, 1952; J. P. E. Morrison; Loc. 2167: 3 spec.
- aaa. Southeast point of Opakea Island, Raroia Atoll, Tuamotu Islands; under rocks on sandy bottom below low tide line, lagoon shore; August 26, 1952; J. P. E. Morrison; Loc. 2194: 1 spec.
- bbb. Southwest corner of Opakea Island, Raroia Atoll, Tuamotu Islands; channel and lagoon shore; August 27, 1952; J. P. E. Morrison; Loc. 2198: 1 spec.
- ccc. North of Opakea Island, Raroia Atoll, Tuamotu Islands; outer reef pavement in channel just to the north of the island; August 27, 1952; J. P. E. Morrison; Loc. 2205: 1 spec.

Coenobita rugosus H. Milne Edwards

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-171:  
16 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-658:  
1 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-660:  
12 spec.
- d. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-4:  
16 spec.
- e. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-6:  
7 spec.
- f. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-124:  
1 spec.
- g. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-403:  
3 spec.
- h. Onotea, Gilbert Islands; Pacific Science Board camp area; July 30,  
1951; P. E. Cloud: 53 spec.
- i. Torrutj Island, Kwajalein Atoll, Marshall Islands; 1951-1952;  
F. S. MacNeil; Loc. 900: 3 juv.
- j. Lato Island, Likiep Atoll, Marshall Islands; in beach drift well  
above high tide mark; December 12-15, 1951; F. R. Fosberg; Loc. 2:  
1 juv.
- k. Rua Island, Ujae Atoll, Marshall Islands; under rotting coconut  
logs; February 23, 1952; F. R. Fosberg; Loc. 3: 4 juv.
- l. Alie Island, Ujae Atoll, Marshall Islands; around freshly cut  
coconuts and in and around rotten coconut log in daytime;  
March 10, 1952; F. R. Fosberg; Loc. 12-15: 97 spec.
- m. Wotho Island, Wotho Atoll, Marshall Islands; small hermit crab,  
claws not striped, darker color, large claw purple; attracted to  
open nuts near camp; February 14, 15, 1952; F. R. Fosberg; Loc. 31:  
9 juv.
- n. Ujelang Islet, Ujelang Atoll, Marshall Islands; on ground;  
February 6, 7, 1952; F. R. Fosberg; Loc. 43: 3 juv.
- o. Ujelang Island, Ujelang Atoll, Marshall Islands; on ground;  
February 6, 7, 1952; F. R. Fosberg; Loc. 44: 2 juv.
- p. Jeno Island, Marshall Islands; at top of beach; December 18-22,  
1951; F. R. Fosberg; Loc. 68: 2 juv.
- q. Kwajalein Island, Kwajalein Atoll, Marshall Islands; above beach,  
around backdoor of officer's club; March 13, 1952; F. R. Fosberg;  
Loc. 80: 6 juv.
- r. Enobuoj Island, Kwajalein Atoll, Marshall Islands; around a sack  
of retting copra thrown up on the beach; January 19, 1952; F. R.  
Fosberg; Loc. 81: 1 juv.
- s. Lae Island, Lae Atoll, Marshall Islands; on trail in front of camp  
at night, large specimen in Vasum shell, small specimen in  
Cerithium shell; January 6-10, 1952; F. R. Fosberg; Loc. 90:  
2 spec.
- t. Lojjaieng Island, Kwajalein Atoll, Marshall Islands; in interstices  
in cut bank of small pebbles above high tide level; January 15,  
1952; F. R. Fosberg; Loc. 665: 1 juv.

- u. Bikar Island, Bikar Atoll, Marshall Islands; 5 ft. up a coconut tree trunk; August 6, 1952; F. R. Fosberg; Loc. 1075: 1 spec.
- v. Bikar Island, Bikar Atoll, Marshall Islands; above high tide level on sand at night; August 6, 1952; F. R. Fosberg; Loc. 1077: 1 spec.
- w. Mataira Island, Raroia Atoll, Tuamotu Islands; purple clawed land hermit crabs feeding at night on opened green coconuts (juice); July 16, 1952; J. P. E. Morrison; Loc. 1940: 1 spec. (among specimens of C. breviranus).

Coenobita spinosus H. Milne Edwards

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-420: 1 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-440: 1 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-661: 1 spec.
- d. Bock Island, Ujae Atoll, Marshall Islands; in coconut shell, from Piscinia forest; February 20, 1952; F. R. Fosberg; Loc. 8: 1 spec.
- e. Wotho Island, Wotho Atoll, Marshall Islands; in coconut trash; February 14, 15, 1952; F. R. Fosberg; Loc. 30: 2 spec.

Family Paguridae

Subfamily Dardaninac

Aniculus apiculus (Herbst)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-443: 3 spec.
- b. Arno Atoll, Marshall Islands; 1950 R. W. Hiatt; Loc. E 2-498: 1 spec.
- c. Nado Island, Likiep Atoll, Marshall Islands; in Turbo shells, Lithothamnion ridge, east side of island; December 14, 1951; F. S. MacNeill; Loc. 821: 2 spec.
- d. Ngarunaoa Island, Raroia Atoll, Tuamotu Islands; inshore pool area of outer reef; N. end of island; July 9, 1952; J. P. E. Morrison; Loc. 1906: 2 spec.
- e. Homohoro Island, Raroia Atoll, Tuamotu Islands; outer reef flats; July 21, 1952; J. P. E. Morrison; Loc. 1956: 1 spec.
- f. Tahunariri Island, Raroia Atoll, Tuamotu Islands; windward outer reef edge; July 27, 1952; J. P. E. Morrison; Loc. 1999: 1 spec.
- g. Oneroa Island, Raroia Atoll, Tuamotu Islands; outer reef edge; August 4, 1952; J. P. E. Morrison; Loc. 2039: 1 spec.

Calcinus elegans (H. Milne Edwards)

- a. Onotoa, Gilbert Islands; back ridge trough, about 600 ft. offshore from Pacific Science Board Camp, at the outer margin of the windward reef, just inshore from the algal ridge and surge channels. This part of the reef never dries even at low tide and generally has at least a foot or two of water above it; August 1, 1951; P. E. Cloud; Loc. GOC-32: 1 spec. (identification not certain).
- b. Ngarunaoa Island, Raroia Atoll, Tuamotu Islands; median section or zone of outer reef, opposite village; July 5, 1952; J. P. E. Morrison; Loc. 1836: 2 spec.

- c. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; near edge of outer reef, opposite village; July 6, 1952; J. P. E. Morrison; Loc. 1852: 2 spec. in Turbo argyrostonus.
- d. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; middle to inner zone of outer reef flats opposite village; July 6, 1952; J. P. E. Morrison; Loc. 1863, 1864: 5 spec.
- e. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; outer reef flats; July 8, 1952; J. P. E. Morrison; Loc. 1885, 1886: 2 spec.
- f. North end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; outer reef along Lithothamnion ridge; July 9, 1952; J. P. E. Morrison; Loc. 1893: 3 spec.
- g. Northeast side of Topukamaruia Island, Takume Atoll, Tuamotu Islands; oceanic reef; September 8, 1952; J. P. E. Morrison; Loc. 2275: 1 spec.
- h. Topukamaruia Island, Takume Atoll, Tuamotu Islands; oceanic reef flats; September 8, 1952; J. P. E. Morrison; Loc. 2276: 1 spec.
- i. Honohomo Island, Raroia Atoll, Tuamotu Islands; outer reef flats; July 21, 1952; J. P. E. Morrison; Loc. 1956: 4 spec.
- j. Honohomo Island, Raroia Atoll, Tuamotu Islands; outer reef flats; July 21, 1952; J. P. E. Morrison; Loc. 1958: 1 spec.
- k. South end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; shore line, rock and gravel at low tide line or below, at night; July 23, 1952; J. P. E. Morrison; Loc. 1976: 2 spec.
- l. Onereca Island, Raroia Atoll, Tuamotu Islands; outer reef pavement area or zone near shore at night; August 4, 1952; J. P. E. Morrison; Loc. 2040: 3 spec.
- m. Onereca Island, Raroia Atoll, Tuamotu Islands; outer reef flats; August 5, 1952; J. P. E. Morrison; Loc. 2048: 1 spec.
- n. Tepatahiti Island, Raroia Atoll, Tuamotu Islands; outer reef flats, here the pavement and pool zone extends almost from the shore to the outer reef edge, the boring urchin zone, however, is distinct, as is the very narrow Lithothamnion ridge; August 26, 1952; J. P. E. Morrison; Loc. 2180: 3 spec.
- o. Ngavarivari Island, Raroia Atoll, Tuamotu Islands; outer reef ridge; August 26, 1952; J. P. E. Morrison; Loc. 2221: 2 spec.
- p. South end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; pool and pavement zone near shore; September 3, 1952; J. P. E. Morrison; Loc. 2253: 1 spec.
- q. Tenuku Haupapatea Island, Raroia Atoll, Tuamotu Islands; algae zone just behind outer reef edge, outer reef flats; September 5, 1952; J. P. E. Morrison; Loc. 2269: 1 spec.

Calcinus gainardi (H. Milne Edwards)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-297: 1 spec.
- b. Lagoon west of Saipan, Marianas Islands; May 6 and 13, 1949; P. E. Cloud; Loc. D-5: 2 spec.
- c. Onotoa, Gilbert Islands; back ridge trough, about 600 ft. offshore from Pacific Science Board camp, at the outer margin of the windward reef, just inshore from the algal ridge and surge channels. This part of the reef never dries even at low tide and generally has at least a foot or two of water above it; August 1, 1951; P. E. Cloud; Loc. GOC-32: 3 spec.

Calcinus laevimanus Randall

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-51: 7 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-592:  
2 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. 2-304:  
12 spec.
- d. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-325:  
1 spec. (identification not certain).
- e. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-511:  
2 spec.
- f. Onotoa, Gilbert Islands; July 12, 1951; A. H. Banner; Loc. A-1:  
1 spec.
- g. Onotoa, Gilbert Islands; July 13, 1951; A. H. Banner; Loc. A-2:  
10 spec.
- h. Onotoa, Gilbert Islands; July 11, 1951; A. H. Banner; Loc. A-4:  
3 spec.
- i. Onotoa, Gilbert Islands; July 25, 1951; A. H. Banner; Loc. A-5:  
2 spec.
- j. Onotoa, Gilbert Islands; August 9, 1951; A. H. Banner; Loc. B-3:  
2 spec.
- k. Onotoa, Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4:  
4 spec.
- l. Onotoa, Gilbert Islands; July-August, 1951; A. H. Banner: 40 spec.
- m. Ailuk Island, Ailuk Atoll, Marshall Islands; seaward reef; 1951-  
1952; F. S. MacNeil; Loc. 857: 3 spec.
- n. Bock Island, Ujae Atoll, Marshall Islands; 1952; F. S. MacNeil;  
Loc. 921: 2 spec.
- o. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; seaward side  
opposite the village; July 1, 1952; J. P. E. Morrison; Loc. 1829:  
1 spec.
- p. South edge of Motufano Island, Raroia Atoll, Tuamotu Islands;  
residual pools at low tide in incomplete channel near lagoon,  
incompletely connected to lagoon water; August 8, 1952; J. P. E.  
Morrison; Loc. 2086: 2 spec.
- q. Northeast side of Tepukanaruia Island, Takume Atoll, Tuamotu Islands;  
oceanic reef; September 8, 1952; J. P. E. Morrison; Loc. 2275:  
1 spec.
- r. Northeast side of Tepukanaruia Island, Takume Atoll, Tuamotu  
Islands; oceanic beach; September 8, 1952; J. P. E. Morrison;  
Loc. 2277: 3 spec.
- s. Mataira Island, Raroia Atoll, Tuamotu Islands; outer reef flats;  
July 16, 1952; J. P. E. Morrison; Loc. 1941: 2 spec.
- t. South end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; shore  
line, rock and gravel at low tide line or below, at night; July 23,  
1952; J. P. E. Morrison; Loc. 1976: 1 spec.
- u. North end of Oneroa Island, Raroia Atoll, Tuamotu Islands; on and  
under rocks at and below low tide line, gravel flats on inner  
reef, lagoon shore; August 7, 1952; J. P. E. Morrison; Loc. 2076:  
1 spec.
- v. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; pavement pool  
habitat, outer reef near shore opposite village; August 23,  
1952; J. P. E. Morrison; Loc. 2178: 31 spec.

- w. Puka Puka Island, Raroia Atoll, Tuamotu Islands; under rocks and on pavement of pool zone of outer reef flats; August 28, 1952; J. P. E. Morrison; Loc. 2208: 5 spec.
- x. Ngavarivari Island, Raroia Atoll, Tuamotu Islands; outer reef flat; August 26, 1952; J. P. E. Morrison; Loc. 2218: 3 spec.
- y. North end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from under larger rocks mostly on inner (shore) half of inner reef flats; September 2, 1952; J. P. E. Morrison; Loc. 2243: 2 spec.

Calcinus latens (Randall)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-108: 5 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-153: 3 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-297: 3 spec.
- d. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-304: 3 spec.
- e. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-391: 5 spec.
- f. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-705: 1 spec.
- g. Onotoa, Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4: 8 spec.
- h. Onotoa, Gilbert Islands; August 15, 1951; A. H. Banner; Loc. B-8: 4 spec.  
(Arno identifications not entirely certain)
- i. North end of Oneroa Island, Raroia Atoll, Tuamotu Islands; outer reef and drift; August 8, 1952; J. P. E. Morrison; Loc. 2093: 1 spec.
- j. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; pavement pool habitat nearby outer reef near shore opposite village; August 23, 1952; J. P. E. Morrison; Loc. 2178: 1 spec.
- k. North end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from under larger rocks mostly on inner (shore) half of inner reef flats; September 2, 1952; J. P. E. Morrison; Loc. 2243: 23 spec.

Calcinus seurati Forest

- a. Bock Island, Ujae Atoll, Marshall Islands; 1952; F. S. MacNeil; Loc. 921: 2 spec.
- b. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; median section or zone of outer reef flats a little behind outer reef edge opposite village; July 5, 1952; J. P. E. Morrison; Loc. 1836: 1 spec.
- c. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; outer reef flat; July 8, 1952; J. P. E. Morrison; Loc. 1885: 1 spec.
- d. Lagoon side of Otikaheru Island, Raroia Atoll, Tuamotu Islands; near shore of brackish enclosed lagoon, on the lagoon side of island; July 29, 1952; J. P. E. Morrison; Loc. 2015: 4 spec.
- e. South edge of Motufano Island, Raroia Atoll, Tuamotu Islands; residual pools at low tide in incomplete channel near lagoon, incompletely connected to lagoon water; August 8, 1952; J. P. E. Morrison; Loc. 2086: 25 spec.

- f. Northeast side of Tepukamaruia Island, Takume Atoll, Tuamotu Islands; oceanic reef; September 8, 1952; J. P. E. Morrison; Loc. 2275: 1 spec.
- g. Northeast side of Tepukamaruia Island; Takume Atoll, Tuamotu Island; large "tide" pool (of reduced salt?) far back next to shore (150 yds.) line of beach rock and/or sand; September 8, 1952; J. P. E. Morrison; Loc. 2278: 11 spec.
- h. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; pavement pool habitat nearby outer reef near shore opposite village; August 23, 1952; J. P. E. Morrison; Loc. 2178: 1 spec.
- i. Opakea Island, Raroia Atoll, Tuamotu Islands; outer reef pavement habitat in channel just to the North of the island; August 27, 1952; J. P. E. Morrison; Loc. 2205: 1 spec.
- j. Fuka Fuka Island, Raroia Atoll, Tuamotu Islands; under rocks and on pavement of pool zone of outer reef flats; August 28, 1952; J. P. E. Morrison; Loc. 2208: 5 spec.
- k. Ngavarivari Island, Raroia Atoll, Tuamotu Islands; outer reef flat; August 26, 1952; J. P. E. Morrison; Loc. 2218: 1 spec.

Calcinus spicatus Forest ?

- a. Onotoa, Gilbert Islands; about 9200 ft. S. 72° W. from offshore end of Government Station jetty (on S. portion of northern main island) just S. of main passage out of lagoon (Rawa ni Karoro) where coral shoals known as Aon te ra Bata begin to deepen; collected in area where patch reefs rise above the limesand bottom at 16 ft. depth; July 29, 1951; P. E. Cloud; Loc. GOC-27: 1 spec.

Calcinus spec.

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-516: 3 spec.
- b. Onotoa, Gilbert Islands; August 24, 1951; A. H. Banner; Loc. A-XVI: 1 spec.
- c. Onotoa, Gilbert Islands; back ridge trough, about 600 ft. offshore from Pacific Science Board camp, at outer margin of windward reef, just inshore from the algal ridge and surge channels. This part of the reef never dries even at low tide and generally has at least a foot or two of water above it; August 1, 1951; P. E. Cloud; Loc. GOC-32: 1 spec.

Diogenes spec.

- a. Onotoa, Gilbert Islands; in coral; August 9, 1951; A. H. Banner; Loc. B-5: 1 spec.

Clibanarius corallinus (H. Milne Edwards)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-51: 1 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-108: 6 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-153: 1 spec.
- d. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-592: 16 spec.



- e. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-4:  
1 spec.
- f. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-124:  
2 spec.
- g. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-180:  
1 spec.
- h. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-304:  
3 spec.
- i. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-325:  
1 spec.
- j. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-367:  
1 spec.
- k. Onotoa, Gilbert Islands; July-August, 1951; A. H. Banner:  
1 spec.
- l. Onotoa, Gilbert Islands; ocean reef; August 4, 1951; A. H. Banner:  
1 spec.
- m. Onotoa, Gilbert Islands; outer reef flat, from Trochus shell;  
July 26, 1951; A. H. Banner: 1 spec. (color: black).
- n. Onotoa, Gilbert Islands; July 5, 1951; A. H. Banner; Loc. B-3:  
2 spec.
- o. Onotoa, Gilbert Islands; August 10, 1951; A. H. Banner; Loc. B-6:  
1 spec.
- p. Ailuk Island, Ailuk Atoll, Marshall Islands; seaward reef; 1951-  
1952; F. S. MacNeil; Loc. 857: 5 spec.
- q. Bock Island, Ujae Atoll, Marshall Islands; 1952; F. S. MacNeil;  
Loc. 921: 3 spec.
- r. North end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; inter-  
tidal gravel flats in incomplete channel; July 21, 1952; J. P. E.  
Morrison; Loc. 1964: 3 spec.
- s. South end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; shore  
line, rock and gravel at low tide line or below, at night;  
July 23, 1952; J. P. E. Morrison; Loc. 1976: 1 spec.
- t. North end Oneroa Island, Raroia Atoll, Tuamotu Islands; outer reef  
and drift; August 8, 1952; J. P. E. Morrison; Loc. 2093: 1 spec.
- u. Ngavarivari Island, Raroia Atoll, Tuamotu Islands; at and just  
above the high tide line of blackened coral gravel and rocks;  
August 26, 1952; J. P. E. Morrison; Loc. 2222: 1 spec.

Clibanarius eurysternus Hilgendorf

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-304:  
3 spec.
- b. Onotoa, Gilbert Islands; July 25, 1951; A. H. Banner; Loc. A-5:  
1 spec.

Clibanarius humilis Dana

- a. Onotoa, Gilbert Islands; July 12, 1951; A. H. Banner; Loc. A-1:  
6 spec.
- b. Onotoa, Gilbert Islands; July 13, 1951; A. H. Banner; Loc. A-2:  
18 spec.
- c. Onotoa, Gilbert Islands; July 11, 1951; A. H. Banner; Loc. A-4:  
1 spec.

- d. Onotoa, Gilbert Islands; July 25, 1951; A. H. Banner; Loc. A-5:  
1 spec. (from Mitra shell).
- e. Onotoa, Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4:  
1 spec.
- f. Onotoa, Gilbert Islands; July-August, 1951; A. H. Banner: 24 spec.

Clibanarius sp.

- a. Lagoon west of Saipan, Marianas Islands; April 4, 1949; P. E. Cloud; Loc. C-7a: 2 spec.

Dardanus deformis (H. Milne Edwards)

- a. Ailuk Island, Ailuk Atoll, Marshall Islands; from inner rubble flat on seaward reef at night; December 24, 1951; F. R. Fosberg; Loc. 835: 1 spec.
- b. Ngarunaoa Island, Raroia Atoll, Tuamotu Islands; from sandy stretches between rocks etc., inner reef flats, up to 3 ft. below low tide, collected at night at pier at village; July 5, 1952; J. P. E. Morrison; Loc. 1851: 1 spec.
- c. "Les Tropiques," 2 km. W. of Papeete, Tahiti, Society Islands; muddy sand bottom from shallow water near shore, only 3 to 6 inches of water at low tide; collected at night; inner fringing reef flats; September 13, 1952; J. P. E. Morrison; Loc. 2286: 5 spec.
- d. "Les Tropiques," 2 km. W. of Papeete, Tahiti, Society Islands; sea anemone carrying hermit crabs (white eyed with the flash-light, and fast moving) from inner (fringing) reef flats near shore, 1 ft. or less of water, at night; September 13, 1952; J. P. E. Morrison; Loc. 2287: 2 spec.

Dardanus euopsis (Dana)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-16:  
1 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-340:  
2 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-506: 1 spec.
- d. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-510:  
1 spec.
- e. Onotoa, Gilbert Islands; July-August, 1951; A. H. Banner: 1 spec.
- f. Onotoa, Gilbert Islands; August 1, 1951; A. H. Banner; Loc. A-8:  
1 spec. (identity not certain).
- g. Onotoa, Gilbert Islands; about 4 1/2 miles S. 86° W. from Aiaki Maneaba on the lagoon side of the broad reef passage N. of a narrower passage called Rawa Bao, from small patch reefs rising to within 4-6 ft. of the surface from a limesand and coral gravel bottom at 2 fathoms; July 27, 1951; P. E. Cloud; Loc. GOC-25: 1 spec. (from Trochus).
- h. Onotoa, Gilbert Islands; slightly less than 4 miles N. 85° W. from Aiaki Maneaba in outer lagoon. Patch reefs rising above the limesand surface at 14 ft. to within 6 ft. of the surface; July 30, 1951; P. E. Cloud; Loc. GOC-28: 1 spec.

- i. Onotoa, Gilbert Islands; SE. end of Rakai Ati reef area, S. side of big windward point of reef, near center of atoll. Collected from 1/2 mile strip across the reef; August 20, 1951; P. E. Cloud; Loc. GOC-36: 2 spec.
- j. Onotoa, Gilbert Islands; about  $3\frac{1}{4}$  miles N.  $31^{\circ}$  W. from Tabuarorae Maneaba near the center of Te Rawa ni Bao, a pass in the S. part of the leeward reef; from thickly set coral masses rising from 15 ft. (sounded at low tide) of water to within about 8-10 ft. of the surface locally; August 23, 1951; P. E. Cloud; Loc. GOC-51: 1 spec.

Dardanus fabimanus (Dana)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-398: 1 spec.
- b. Onotoa, Gilbert Islands; outer reef flat; from Terebra shell; July 26, 1951; A. H. Banner; Loc. B-1b: 3 spec. (sandy color).
- c. Onotoa, Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4: 1 juv.

Dardanus gemmatus (H. Milne Edwards)

- a. Onotoa, Gilbert Islands; SE. end of Rakai Ati reef area, S. side of big windward point of reef near center of atoll; from 1/2 mile strip across the reef; August 20, 1951; P. E. Cloud; Loc. GOC-36: 1 spec.

Dardanus guttatus (Olivier)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-391: 1 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-304: 1 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-367: 1 spec.
- d. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-454: 1 spec.
- e. Onotoa, Gilbert Islands; about  $4\frac{1}{2}$  miles S.  $86^{\circ}$  W. from Aiaki Maneaba on the lagoon side of the broad reef passage N. of a narrower passage called Rawa Bao; from small patch reefs rising to within 4-6 ft. of the surface from a limesand and coral gravel bottom at 2 fathoms; July 27, 1951; P. E. Cloud; Loc. GOC-25: 1 spec. (from Lambis chiragra).
- f. Onotoa, Gilbert Islands; about  $3\frac{1}{4}$  miles N.  $31^{\circ}$  W. from Tabuarorae Maneaba near the center of Te Rawa ni Bao, a pass in the S. part of the leeward reef; from thickly set coral masses rising from 15 ft. (sounded at low tide) of water to within about 8-10 ft. of the surface locally; August 23, 1951; P. E. Cloud; Loc. GOC-51: 1 spec.
- g. Between Taka and Lojiron Islands, Taka Atoll, Marshall Islands; on reef in several feet of water, inhabiting a large heavy Lambis shell; December 7, 1951; F. R. Fosberg; Loc. 55: 1 spec.

Dardanus megistos (Herbst)

- a. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; large red hermit crabs from below low tide on lagoon side near pier at village, collected at night; July 5, 1952; J. P. E. Morrison; Loc. 1848: 2 spec.
- b. North end of Oneroa Island, Raroia Atoll, Tuamotu Islands; on and under coralline rocks on gravel flats just below low tide line of inner reef (lagoon) shore, at night; August 6, 1952; J. P. E. Morrison; Loc. 2072: 1 spec.

Dardanus spinimanus (H. Milne Edwards)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-325: 1 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-339: 1 spec.

Dardanus sp. (near crassimanus [H. Milne Edwards].)

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-506: 1 spec.

Subfamily Pagurinae

Pagurus laevimanus (Ortmann)

- a. Saipan, Marianas Islands; January 30, 1949; P. E. Cloud: 1 spec.
- b. Saipan, Marianas Islands; taken from dead coral and algal rock at about 10 ft.; April 6, 1949; P. E. Cloud; Loc. A-8: 1 spec.
- c. Lagoon west of Saipan, Marianas Islands; April 4, 1949; P. E. Cloud; Loc. C-7a: 2 spec.

GALATHEIDEA

(Only Partly Identified)

Family Galatheidae

Galathea elegans Adams & White

- a. Kwadak Island, Kwajalein Atoll, Marshall Islands; on Comanthus bennetti (J. Muller), in 3-4 fathoms of water; July 7, 1951; P. E. Cloud: 2 spec. (Crinoid identified by Mr. Austin H. Clark).

Family Porcellanidae

Neopetrolisthes ohshimai Miyake

- a. Ine village, Arno Atoll, Marshall Islands; outer sea reef slope; commensal with giant sea anemone, Disocosoma; June-September, 1950; R. W. Hiatt; Loc. E 1-673: 1 spec.

### III. Macrura

#### SCYLLARIDEA

##### Family Scyllaridae

###### Parribacus antarcticus (Lund)

- a. North of Ine village, Arno Atoll, Marshall Islands; lagoon reef flat; June-August 1950; J. W. Wells; Loc. S. 20: 1 spec.
- b. Onotoa Atoll, Gilbert Islands; windward sea reef; July 1951; A. H. Banner; Loc. A-4: 1 juv.
- c. Onotoa Atoll, Gilbert Islands; windward sea reef; August 2, 1951; A. H. Banner; Loc. A-8: 1 juv.
- d. Onotoa Atoll, Gilbert Islands; August 7, 1951; P. E. Cloud: 1 spec.
- e. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; outer reef, fishing at night; July 22, 1952; J. P. E. Morrison; Loc. 1972: 2 spec.
- f. South end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; near edge of outer reef a little behind the Lithothamnion ridge; fishing at night; July 23, 1952; J. P. E. Morrison; Loc. 1979-1983: 2 spec.

##### Family Palinuridae

###### Panulirus versicolor (Latreille)

- a. Onotoa Atoll, Gilbert Islands; July-September 1951; A. H. Banner: 1 spec.
- b. Ine village, Arno Atoll, Marshall Islands; from under coral head, outer lagoon reef slope; June-September 1950; R. W. Hiatt; Loc. E 2-455: 1 spec.

###### Panulirus penicillatus (Olivier)

- a. Ine village, Arno Atoll, Marshall Islands; from under coral head, outer lagoon reef slope; June-September 1950; R. W. Hiatt; Loc. E 2-455.
- b. Onotoa Atoll, Gilbert Islands; July-September 1951; A. H. Banner: 2 spec.
- c. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; outer reef; fishing at night; July 22, 1952; J. P. E. Morrison; Loc. 1974: 1 spec.
- d. South end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; near edge of outer reef, a little behind Lithothamnion ridge; fishing at night; July 23, 1952; J. P. E. Morrison; Loc. 1983: 1 spec.
- e. Oneroa Island, Raroia Atoll, Tuamotu Islands; under coral on outer reef behind reef edge in coral and pool area; at night; August 5, 1952: 1 ovig. female.

THALASSINIDEA

Family Axiidae

Axius (Neaxius) acanthus A. Milne Edwards

- a. Lagoon west of Susupe, Saipan, Marianas Islands; April 24, 1949;  
P. E. Cloud; Loc. G-1: 2 spec.

Axiopsis (Axiopsis) serratifrons (A. Milne Edwards)

- a. Onotoa, Gilbert Islands; August 2, 1951; A. H. Banner; Loc. A-9:  
2 spec.  
b. Onotoa, Gilbert Islands; Heliopora tidepool in sand at S. end  
of the northern main island at 1 ft. low tide; August 2, 1951;  
P. E. Cloud; Loc. GOC-30: 1 ovig. female.

Axiopsis (Paraxiopsis) bisquamosa De Mann

- a. Lagoon west of Saipan; Marianas Islands; April 12, 1949; P. E.  
Cloud; Loc. A-5: 2 spec.

Family Callianassidae

Upogebia amboinensis (De Man)

- a. Onotoa, Gilbert Islands; about 13,400 ft. S. 75° W. from Aiaki  
Mancaba in the deep central part of the lagoon. Bottom of  
low scattered dead and living coral patches on intervening  
lime mud and lime sand about 30-40% seds, 60-70% coral; August 25,  
1951; P. E. Cloud; Loc. GOC-55: 9 spec.

Callianassa (Trypaea) gravieri Nobili

- a. Onotoa, Gilbert Islands; tide flat area south of Aonteuma;  
August 21, 1951; A. H. Banner: 1 ovig. female.  
b. Onotoa, Gilbert Islands; clean lime sand flat in the vicinity  
of a point about 3000 ft. E. of Aonteuma, NW. Onotoa; area  
exposed at midtide; August 21, 1951; P. E. Cloud; GOC-42:  
1 ovig. female.

Callianidea elongata (Guérin)

- a. Onotoa, Gilbert Islands; July 19, 1951; A. H. Banner; Loc. A-4:  
1 spec.

PENAEIDEA

Family Penaeidae

Metapenaeopsis sp.

- a. Arno Atoll, Marshall Islands; June-September 1950; R. W. Hiatt;  
Loc. E 2-275: 1 juv.

CARIDEA

Family Pasiphaeidae

Leptochela robusta Stimpson

- a. Two hundred feet outside Ujae Atoll, Marshall Islands; skimmed from the surface of the sea at the stem of the ship under lights; 1951-1952; F. S. MacNeil; Loc. 922: 11 spec.

Family Disciadidae

Discias musicus new species

- a. Lagoon west of Saipan, Marianas Islands; immediately shoreward of barrier reef flat; April 10, 1949; P. E. Cloud; Loc. C-7a: 1 spec.

Family Processidae

Nikoides sibogae De Man

- a. Lagoon west of Saipan, Marianas Islands; immediately shoreward of barrier reef flat; P. E. Cloud; April 10, 1949; Loc. C-7a: 1 spec.

Nikoides nanus Chace

- a. Lagoon west of Saipan, Marianas Islands; seaward side of reef, bottom with abundant patches and knolls of mostly dead coral, crustose corallines, and coralline or coral rubble, with areas of coral algal concentration; depths 10-60 ft, with local coral algal shoals; May 4, 1949; P. E. Cloud; Loc. E-7: 1 ovig. female.
- b. Lagoon west of Saipan, Marianas Islands; entrance of lagoon, bottom of limesand with fairly abundantly scattered knolls and patches of mostly dead coral and/or crustose corallines; depth generally exceeding 20 ft; May 13, 1949; P. E. Cloud; Loc. D-7: 1 spec.

Family Thalassocaridae

Thalassocaris crinita (Dana)

- a. Southeast part of main lagoon, Arno Atoll, Marshall Islands; haul No. 3; 20 fms. deep; July 22, 1950; John W. Wells; Loc. 39: 3 spec.

Family Hippolytidae

Saron marmoratus (Olivier)

- a. Matuis Beach, NW. Saipan, Marianas Islands; taken mostly from clumps of brown Acropora and partly from Pocillopora damicornis cespitosa; December 1, 1948; P. E. Cloud: 1 spec.

- b. Lagoon west of Saipan, Marianas Islands; immediately shoreward of barrier reef flat; May 13, 1949; P. E. Cloud; Loc. C-7a: 1 spec.
- c. Ine village, Arno Atoll, Marshall Islands; from head of Acropora spec. about midway between the shore and the sea reef edge; June-September 1950; R. W. Hiatt; Loc. E 1-288: 1 spec.
- d. Onotoa Atoll, Gilbert Islands; toward S. end of a lee reef stretch known as Rakai Ati, in an area of small coral patches fairly thickly interspersed on limesand and coral debris; depth at low tide 3-4 ft.; July 26, 1951; P. E. Cloud; GOC-24: 1 spec.

Saron neglectus De Man

- a. Lagoon west of Saipan, Marianas Islands; immediately shoreward of barrier reef flat; May 13, 1949; P. E. Cloud; Loc. C-7a: 2 spec.
- b. Ine village, Arno Atoll, Marshall Islands; from head of Acropora spec.; about midway between the shore and the sea reef edge; June-September 1950; R. W. Hiatt; Loc. E 1-288: 1 ovig. female.
- c. Ine village, Arno Atoll, Marshall Islands; from head of Pocillopora spec. near outer edge of sea reef; June-September 1950; R. W. Hiatt; Loc. E 1-624: 2 spec.
- d. Ine village, Arno Atoll, Marshall Islands; from head of Acropora spec. near outer edge of lagoon reef; June-September 1950; R. W. Hiatt; Loc. E 2-375: 1 spec.
- e. Onotoa Atoll, Gilbert Islands; toward S. end of a lee reef stretch known as Rakai Ati, in an area of small coral patches fairly thickly interspersed on limesand and coral debris; depth at low tide 3-4 ft.; July 26, 1951; P. E. Cloud; Loc. GOC-24: 1 spec.
- f. Onotoa Atoll, Gilbert Islands; about 9200 ft. S. 72° W. from offshore end of Government Station jetty (on S. portion of northern main island) just S. of main passage out of lagoon (Rawa ni Karoro) where coral shoals known as Aon te ra Bata begin to deepen; collected from area where patch reefs rise above the limesand bottom at 16 ft. depth; July 29, 1951; P. E. Cloud; Loc. GOC-27: 1 spec.
- g. Onotoa Atoll, Gilbert Islands; about 3¼ miles N. 31° W. from Tabuarorae Maneaba near the center of Te Rawa ni Bao, a pass on the S. part of the leeward reef; collected from thickly set coral masses rising 15 ft. (sounded at low tide) of water to within about 8-10 ft. of the surface locally; August 23, 1951; P. E. Cloud; Loc. GOC-51: 1 spec.

Thor maldivensis Borradaile

- a. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 2 spec.



- b. Onotoa Atoll, Gilbert Islands; about  $3\frac{1}{2}$  miles N.  $31^{\circ}$  W. from Tabuarorae Maneaba near the center of Te Rawa ni Bao, a pass in the S. part of the leeward reef; from thickly set coral masses rising from 15 feet (sounded at low tide) of water to within about 8-10 feet of the surface locally; August 23, 1951; P. E. Cloud; Loc. GOC-51: 3 spec.

Thor paschalis (Heller)

- a. Lagoon west of Saipan, Marianas Islands; entrance of lagoon, bottom of abundant patches and knolls of mostly dead coral, crustose corallines, and coralline and coral rubble, with areas floored by limesand around, between and locally on the areas of coral-algal concentration; depth generally exceeds 30 feet; 1949; P. E. Cloud; Loc. D-8: 1 ovig. female.
- b. Lagoon west of Saipan, Marianas Islands; April 10, 1949; P. E. Cloud; Loc. C-7a; immediately shoreward of barrier reef flat: 2 spec.
- c. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 1 ovig. female.

Family Rhynchocinetidae

Rhynchocinctes hiatti new sp.

- a. Onotoa Atoll, Gilbert Islands; August 1951; A. H. Banner: 3 spec.
- b. North end of Oneroa Island, Raroia Atoll, Tuamotu Islands; from surge channels in outer reef, at and beyond Lithothamnion ridge; August 6, 1952; J. P. E. Morrison; Loc. 2064: 14 spec.

Family Palaemonidae

Subfamily Palaemoninae

Palaemon debilis Dana

- a. Tehakapikipiki Island, Raroia Atoll, Tuamotu Islands; brackish enclosed lagoon, in area little below low tide line, in about 1-2 feet of water, sandy bottom around rocks and coralline gravel; July 29, 1952; J. P. E. Morrison; Loc. 2013: about 2500 spec.
- b. South side of Oteteu Island, Raroia Atoll, Tuamotu Islands; just above silty sand bottom, lagoon end of incomplete channel (plugged up with sand bar); in daytime; August 21, 1952; J. P. E. Morrison; Loc. 2162: 69 spec.

Palaemon concinnus Dana

- a. Harrison Smith's Place, Maitaiea District, Tahiti, Society Islands; estuarine tree swamp (Tahitian Chestnut?), black mud bottom; June 21, 1952; J. P. E. Morrison; Loc. 1813: 92 spec.

Macrobrachium acmulum (Nobili)

- a. Punaruu River, 14 km. W. of Papeete, Tahiti, Society Islands; in the rapids just above the road bridge; low water after several days without rain (dry season), June 14, 1952; J. P. E. Morrison; Loc. 1809: 1 spec.

Macrobrachium australe (Guerin)

- a. Vaipopo River, about 12 km. E. of Papeete, Tahiti, Society Islands; in quiet margin of the river; September 15, 1952; J. P. E. Morrison; Loc. 2297: 1 spec.

Macrobrachium lar (Fabricius)

- a. Talofofu River, 3950 feet due west of Unai Talofofu, Saipan, Marianas Islands; in small pools in the stream-bed of the river; 1949; P. E. Cloud: 10 spec.

Brachycarpus biunguiculatus (Lucas)

- a. North end of Oneroa Island, Raroia Atoll, Tuamotu Islands; from surge channels at and beyond Lithothamnion ridge; August 6, 1952; J. P. E. Morrison; Loc. 2063: 1 spec.

Subfamily Pontoniinae

Palaeomonella tenuipes Dana

- a. Ine village, Arno Atoll, Marshall Islands; from Acropora heads on sea reef; June-September 1950; R. W. Hiatt; Loc. E1-288: 2 spec.
- b. Ine village, Arno Atoll, Marshall Islands; from coral heads on sea reef; June-September 1950; R. W. Hiatt; Loc. E 1-388: 1 spec.
- c. Ine village, Arno Atoll, Marshall Islands; from coral heads on sea reef; June-September 1950; R. W. Hiatt; Loc. E 1-307: 3 spec.

Palaeomonella vestigialis Kemp

- a. Lagoon west of Saipan, Marianas Islands; immediately shoreward of barrier reef flat; April 10, 1949; P. E. Cloud; Loc. C-7a: 1 ovig. female.

Palaeomonella denticulata (Nobili)

- a. Ine village, Arno Atoll, Marshall Islands; from Acropora heads in lagoon reef; June-September 1950; R. W. Hiatt; Loc. E 2-375: 2 spec.
- b. Oneroa Island, Raroia Atoll, Tuamotu Islands; about 3/4 mile inside lagoon; sand film over rock pavement and coral patches on bottom; 40 ft. of water; dredge; August 9, 1952; J. P. E. Morrison; Loc. 2100: 5 spec.

Vir orientalis (Dana)

- a. Lagoon west of Saipan, Marianas Islands; from coral heads in 4-6 ft. of water; April 7, 1949; P. E. Cloud; Loc. A-11: 1 ovig. female.
- b. Off Unai Dikiki Matus, NW. Saipan, Marianas Islands; near reef off Naval Magazine; collected from coral; April 20, 1949; Mrs. Alice Davis: 1 ovig. female.

Periclimenes (Harpilius) elegans (Paulson)

- a. Ine village, Arno Atoll, Marshall Islands; inner region of sea reef flat; from branches of dead coral head; June-September 1950; R. W. Hiatt; Loc. E 1-139: 1 spec.

Periclimenes (Harpilius) spiniferus De Man

- a. Natuis Beach, NW. Saipan, Marianas Islands; December 1, 1948; P. E. Cloud: 8 spec.
- b. Lagoon west of Saipan, Marianas Islands; from coral heads in 4-6 ft. of water; April 7, 1949; P. E. Cloud; Loc. A-11: 1 ovig. female.
- c. Saipan, Marianas; from a single large head of Acropora leptocyathus (Brook); July 2, 1949; P. E. Cloud: 1 spec.
- d. Ine village, Arno Atoll, Marshall Islands; from coral heads on sea reef; June-September 1950; R. W. Hiatt; Loc. E 1-388: 1 spec.
- e. Ine village, Arno Atoll, Marshall Islands; from Seriatopora heads on lagoon reef; June-September 1950; R. W. Hiatt; Loc. E 2-350: 6 spec.

Periclimenes (Harpilius) bayeri n. sp.

- a. Ine village, Arno Atoll, Marshall Islands; sea reef; June-September 1950; R. W. Hiatt; Loc. E 1-207: 1 spec.
- b. Ine village, Arno Atoll, Marshall Islands; outer edge of sea reef; from head of Pocillopora sp.; June-September 1950; R. W. Hiatt; Loc. E 1-634: 1 spec.

Paranchistus biunguiculatus (Borradaile)

- a. Lagoon, Onotoa Atoll, Gilbert Islands; in Tridacna gigas (L.); July 16, 1951; P. E. Cloud: 1 spec.
- b. Lagoon, Ujae Atoll, Marshall Islands; from the inside of a large live Tridacna; 1951-1952; F. S. MacNeil; Loc. 923: 1 ovig. female.

Anchistus miersi (De Man)

- a. Ine village, Arno Atoll, Marshall Islands; lagoon reef; commensal with the giant clam Hippopus hippopus (L.); June-September 1950; R. W. Hiatt; Loc. E 1-125: 2 spec.
- b. Ine village, Arno Atoll, Marshall Islands; lagoon reef; commensal with the giant clam Hippopus hippopus (L.); June-September 1950; R. W. Hiatt; Loc. E 2-9: 1 ovig. female.

Anchistus demani Kemp

- a. Ine anchorage, Arno Atoll, Marshall Islands; reef flat, coral rock; July-August 1950; J. W. Wells; Loc. 6: 1 ovig. female.

Periclimenaeus quadridentatus (Rathbun)

- a. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds NNE. of Mañagaha Island: 1 ovig. female.
- b. Lagoon west of Saipan, Marianas Islands; April 10, 1949; P. E. Cloud; Loc. C-7a, immediately shoreward of barrier reef flat: 3 spec.

Periclimenaeus tridentatus (Miers)

- a. Rinai Finauchutugan, Saipan, Marianas Islands; January 30, 1949; P. E. Cloud: 1 spec.

Onyccocaris stenolepis Holthuis

- a. Ine village, Arno Atoll, Marshall Islands; from coral heads on sea reef; June-September 1950; R. W. Hiatt; Loc. E 1-307: 1 ovig. female.

Philarius gerlachei (Nobili)

- a. Ine village, Arno Atoll, Marshall Islands; near outer edge of sea reef, on Acropora heads; June-September 1950; R. W. Hiatt; Loc. E 1-613: 2 spec.
- b. Ine village, Arno Atoll, Marshall Islands; near outer edge of sea reef, from coral heads; June-September 1950; R. W. Hiatt; Loc. E 1-388: 4 spec.
- c. Onotoa Atoll, Gilbert Islands; slightly less than 4 miles N. 85° W. from Aiaki Maneaba in outer lagoon; patch reefs rising above the limesand surface at 14 ft. to within 6 ft. of the surface; July 30, 1951; P. E. Cloud; Loc. GOC-28: 2 spec.

Philarius imperialis (Kubo)

- a. Ine village, Arno Atoll, Marshall Islands; near outer edge of lagoon reef; from Acropora heads; June-September 1950; R. W. Hiatt; Loc. E 2-375: 3 spec.

Pontoniopsis comanthi Borradaile

- a. Lagoon west of Saipan, Marianas Islands; April 10, 1949; P. E. Cloud; Loc. C-7; barrier reef flat; from Comatulid Crinoid: 1 ovig. female.
- b. Onotoa Atoll, Gilbert Islands; about 4 $\frac{1}{4}$  miles S. 86° W. from Aiaki Maneaba on the lagoon side of the broad reef passage N. of a narrower passage called Rawa Bao; from small patch reefs rising to within 4-6 ft. of the surface from a limesand and coral gravel bottom at 2 fms.; on Crinoids; July 27, 1951; P. E. Cloud; Loc. GOC-25: 1 ovig. female.

Pontonia hurii n. sp.

- a. Arno Atoll, Marshall Islands; from mantle cavity of rock clam, Spondylus sp.; June-September 1950; R. W. Hiatt; Loc. E 2-389: 1 ovig. female.
- b. Tepatahiti Island, Raroia Atoll, Tuamotu Islands; off patch reef in lagoon opposite island; 25-30 ft. water; from Spondylus sp.; August 27, 1952; J. P. E. Morrison; Loc. 2227: 8 spec.

Harpiliopsis beaupresi (Audouin)

- a. Ine village, Arno Atoll, Marshall Islands; from coral heads on sea reef; June-September 1950; R. W. Hiatt; Loc. E 1-307 and E 1-388: 7 spec.
- b. Ine village, Arno Atoll, Marshall Islands; Pocillopora sp. on sea reef; June-September 1950; R. W. Hiatt; Loc. E 1-618: 5 spec.

Harpiliopsis depressus (Stimpson)

- a. Ine village, Arno Atoll, Marshall Islands; in coral heads of sea reef; June-September 1950; R. W. Hiatt; Loc. E. 1-307, E 1-388: 7 spec.

- b. Ine village, Arno Atoll, Marshall Islands; in Pocillopora heads of sea reef; June-September 1950; R. W. Hiatt; Loc. E 1-618, E 1-633: 5 ovig. females.
- c. Ine village, Arno Atoll, Marshall Islands; in Stylophora heads of sea reef; June-September 1950; R. W. Hiatt; Loc. E 1-649: 3 spec.
- d. Ine village, Arno Atoll, Marshall Islands; in Seriatopora heads of lagoon reef; June-September 1950; R. W. Hiatt; Loc. E 2-350: 3 spec.
- e. Ine village, Arno Atoll, Marshall Islands; in Acropora heads of lagoon reef; June-September 1950; R. W. Hiatt; Loc. E 2-375: 1 spec. (damaged).
- f. Onotoa Atoll, Gilbert Islands; about 8600 feet N. 18° W. from Tabuarorae Maneaba in 17 ft. of water mean low tide; August 10, 1951; P. E. Cloud; Loc. GOC-35: 3 spec.

Stegopontonia commensalis Nobili

- a. North end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; from pockets (sandy bottom, etc.) in inner reef only near lagoon edge of reef in transect area at night; from sea urchin No. 2238, Echinothrix diadema (L.); September 2, 1952; J. P. E. Morrison; Loc. 2246: 1 ovig. female.
- b. Ilot Porc Epic, ESE. of Noumea, New Caledonia; commensally on Diadema setosum (Leske); April 19, 1953; R. Catala: 1 ovig. female.

Coralliocaris graminea (Dana)

- a. Ine village, Arno Atoll, Marshall Islands; from head of Acropora sp.; about midway between the shore and the sea reef; June-September, 1950; R. W. Hiatt; Loc. E 1-288: 3 spec.
- b. Ine village, Arno Atoll, Marshall Islands; about half way out on sea reef flat; from sponge on base of dead coral head; June-September 1950; R. W. Hiatt; Loc. E 1-307: 4 spec.
- c. Ine village, Arno Atoll, Marshall Islands; near outer edge of sea reef flat; from heads of Acropora sp.; June-September 1950; R. W. Hiatt; Loc. E 1-388: 1 spec.
- d. Ine village, Arno Atoll, Marshall Islands; near outer edge of sea reef; from head of Acropora sp.; June-September 1950; R. W. Hiatt; Loc. E 1-612: 8 spec.
- e. Ine village, Arno Atoll, Marshall Islands; near outer edge of sea reef; from head of Acropora sp.; June-September 1950; R. W. Hiatt; Loc. E 1-642: 2 spec.
- f. Ine village, Arno Atoll, Marshall Islands; near outer edge of lagoon reef; from Acropora sp.; June-September 1950; R. W. Hiatt; Loc. E 2-375: 6 spec.

Coralliocaris superba (Dana)

- a. Lagoon N. of Matuis Beach, NW. Saipan, Marianas Islands; picked from head of brown Acropora sp.; December 12, 1948; P. E. Cloud: 1 spec.
- b. Saipan, Marianas Islands; from a single large head of Acropora leptocyathus (Brook); July 2, 1949; P. E. Cloud: 2 spec.

- c. Ine village, Arno Atoll, Marshall Islands; near outer edge of sea reef flat; from heads of Acropora sp.; June-September 1950; R. W. Hiatt; Loc. E 1-388: 3 spec.
- d. Ine village, Arno Atoll, Marshall Islands; near outer edge of sea reef; from head of Acropora sp.; June-September 1950; R. W. Hiatt; Loc. E 1-642: 1 spec.

Coralliocaris nudirostris (Heller)

- a. Ine village, Arno Atoll, Marshall Islands; near outer edge of sea reef; from head of Acropora sp.; June-September 1950; R. W. Hiatt; Loc. E 1-612: 2 spec.
- b. Onotoa Atoll, Gilbert Islands; slightly less than 4 miles N. 85° W. from Aiaki Maneaba in outer lagoon; patch reefs rising above limesand bottom at 14 feet to within 6 feet of the surface; July 30, 1951; P. E. Cloud; Loc. GOC-28: 1 ovig. female.

Jocaste lucina (Nobili)

- a. Lagoon W. of Saipan, Marianas Islands; from coral heads in 4-6 ft. of water; April 7, 1949; P. E. Cloud; Loc. A-11: 6 spec.
- b. Lagoon W. of Saipan, Marianas Islands; April 19, 1949; P. E. Cloud; Loc. F-X: 1 spec.
- c. Lagoon W. of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4, 500 yds. NNE. of Mañagaha Island: 1 spec.
- d. Ine village, Arno Atoll, Marshall Islands; about midway between the shore and the sea reef edge; from head of Acropora sp.; June-September 1950; R. W. Hiatt; Loc. E 1-288: 1 spec.
- e. Ine village, Arno Atoll, Marshall Islands; about half way out on sea reef flat; from sponge on base of dead coral head; June-September 1950; R. W. Hiatt; Loc. E 1-307: 4 spec.
- f. Ine village, Arno Atoll, Marshall Islands; near outer edge of sea reef flat; from heads of Acropora sp.; June-September 1950; R. W. Hiatt; Loc. E 1-388, E 1-612, E 1-642: 28 spec.
- g. Onotoa Atoll, Gilbert Islands; about 9200 ft. S. 72° W. from offshore end of Government Station jetty (on S. portion of northern main island) just S. of main passage out of lagoon (Rawa ni Karoro) where coral shoals known as Aon te ra Bata begin to deepen; from low coral patch about 14 ft. below the surface; bottom limesand, at about 16 feet depth; July 29, 1951; P. E. Cloud; Loc. GOC-27: 1 spec.
- h. Onotoa Atoll, Gilbert Islands; about 3½ miles N. 31° W. from Tabuarorae Maneaba near the center of Te Rawa ni Bao, a pass in the S. part of the leeward reef; from thickly set coral masses rising from 15 feet (sounded at low tide) to within about 8-10 feet of the surface locally; August 23, 1951; P. E. Cloud; Loc. GOC-51: 1 ovig. female.

Conchodytes meleagrinae Peters

- a. Ine village, Arno Atoll, Marshall Islands; edge of lagoon reef; commensal with pearl oyster, Pinctada margaritifera (L.); June-September 1950; R. W. Hiatt; Loc. E 2-25: 1 ovig. female.

- b. Tehakapikipiki Island, Raroia Atoll, Tuamotu Islands; slope of Tomogoru patch reef, approximately 1 mile W. of the center of lagoon shore; depth 30 feet; from mantle cavity of pearl oyster (No. 2017); July 29, 1952; J. P. E. Morrison; Loc. 2018: 2 spec.
- c. South end of Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; off inner reef; depth 15 feet; from pearl oyster (No. 2021); August 1, 1952; J. P. E. Morrison; Loc. 2022: 2 spec.

Conchodytes tridacnae Peters

- a. Arno Atoll, Marshall Islands; commensal in the mantle cavity of giant clams, Tridacna elongata; June-September 1950; R. W. Hiatt; Loc. E 2-442: 2 spec.

Family Gnathophyllidae

Gnathophyllum americanum Guérin

- a. Lagoon W. of Susupe, Saipan, Marianas Islands; April 24, 1949; P. E. Cloud, Jr.; Loc. G-1: 2 spec.
- b. East side of Kakapuka Island, Raroia Atoll, Tuamotu Islands; from first channel; August 26, 1952; J. P. E. Morrison; Loc. 2187: 1 spec.

STENOPODIDEA

Family Stenopodidae

Stenopus hispidus (Olivier)

- a. Lagoon W. of Susupe, Saipan, Marianas Islands; April 24, 1949; P. E. Cloud; Loc. G-1: 2 spec.
- b. Onotoa Atoll, Gilbert Islands; July-September 1951; A. H. Banner: 1 spec.
- c. Onotoa Atoll, Gilbert Islands; lagoon; July 24, 1951; A. H. Banner: 1 spec.
- d. Mataira Island, Raroia Atoll, Tuamotu Islands; under rock in pool near shore, outer reef flats; July 16, 1952; J. P. E. Morrison; Loc. 1944: 2 spec.

STOMATOPODA

Pseudosquilla ornata Miers

- a. Lagoon west of Saipan, Marianas Islands; April 28, 1949; April 28, 1949; P. E. Cloud; Loc. 2, from  $\frac{1}{2}$  ton block of dead coral-algal rock taken on anchor of LT 535: 1 spec.

Pseudosquilla oxyrhyncha Borradaile

- a. About  $\frac{1}{2}$  mile E. offshore from the central part of Bikati Island, Butaritari Atoll, Gilbert Islands; in pocket of broad area of Heliopora reef; September 3, 1951; P. E. Cloud; Loc. GBC-2: 1 spec.

Pseudosquilla sp.

- a. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 1 juv.  
b. Lagoon west of Saipan, Marianas Islands; May 13, 1949; P. E. Cloud; Loc. D-8: 1 juv.  
c. Ujae Atoll, Marshall Islands; skimmed from surface of sea at stern of ship under lights; anchored 200 feet outside Ujae passage; 1951-1952; F. S. MacNeil; Loc. 922: 2 juvs.

All are juveniles, a and c are in the monodactyla stage, b is slightly larger.

Gonodactylus gyrosus Odhner

- a. Ine village, Arno Atoll, Marshall Islands; from outer edge of sea reef; June-September 1950; R. W. Hiatt; Loc. E 1-406: 1 spec.

Gonodactylus falcatus (Forskål)<sup>o</sup>

- a. Matus Beach, NW. Saipan, Marianas Islands; taken mostly from clumps of brown Acropora and partly from Focillopora damicornis cespitosa Dana; December 1, 1948; P. E. Cloud: 2 spec.  
b. Onotoa Atoll; Gilbert Islands; August 8, 1951; A. H. Banner; Loc. B-4: 2 spec.

Gonodactylus chiragra (Fabr.)

- a. Saipan, Marianas Islands; 1949; P. E. Cloud; Loc. C-IX: 1 spec.  
b. Lagoon west of Saipan, Marianas Islands; April 12, 1949; P. E. Cloud; Loc. A-5: 2 spec.  
c. Lagoon west of Saipan, Marianas Islands; Loc. A-7; April 27, 1949; P. E. Cloud: 1 spec.  
d. Lagoon west of Saipan, Marianas Islands; April 4, 1949; P. E. Cloud; Loc. A-11; from coral heads in 4-6 feet of water: 1 spec.  
e. Lagoon west of Saipan, Marianas Islands; May 6, 1949; P. E. Cloud; Loc. D-5: 5 spec.  
f. Lagoon west of Saipan, Marianas Islands; May 3, 1949; P. E. Cloud; Loc. E-4: 1 spec.  
g. Lagoon west of Saipan, Marianas Islands; May 4, 1949; P. E. Cloud; Loc. E-7; from coral rock: 3 spec.



- h. Lagoon west of Saipan, Marianas Islands; April 19, 1949; P. E. Cloud; Loc. F-X: 2 spec.
- i. Lagoon west of Saipan, Marianas Islands; June 20, 1949; P. E. Cloud; Loc. 4; 500 yards NNE. of Mañagaha Island: 7 spec.
- j. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-305: 1 spec.
- k. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-178: 1 spec.
- l. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-375: 1 spec.
- m. Onotoa, Gilbert Islands; July 13, 1951; A. H. Banner; Loc. A-2: 1 spec.
- n. Onotoa, Gilbert Islands; July 19, 1951; A. H. Banner; Loc. A-4: 1 spec.
- o. Onotoa, Gilbert Islands; August 2, 1951; P. E. Cloud; Loc. GOC-30: 1 spec.
- p. Onotoa, Gilbert Islands; August 1, 1951; P. E. Cloud; Loc. GOC-32: 1 spec.
- q. Bikati Islet, Butaritari Atoll, Gilbert Islands; September 3, 1951; P. E. Cloud; Loc. GBC-2: 1 spec.

Gonodactylus chiragra platysoma Wood-Mason

- a. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-294: 2 spec.
- b. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 1-701: 1 spec.
- c. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-22: 1 spec.
- d. Arno Atoll, Marshall Islands; 1950; R. W. Hiatt; Loc. E 2-511: 2 spec.
- e. Onotoa, Gilbert Islands; August 4, 1951; A. H. Banner; Loc. A 10-12: 1 spec.
- f. West of Ailuk Island, Ailuk Atoll, Marshall Islands; seaward side of leeward reef; 1951-1952; F. S. MacNeil; Loc. 847: 2 spec.
- g. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; under rocks on middle to inner section or zone of outer reef opposite village; July 6, 1952; J. P. E. Morrison; Loc. 1861: 1 spec.
- h. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; outer reef flats; July 11, 1952; J. P. E. Morrison; Loc. 1920: 1 spec.
- i. Ngarumaoa Island, Raroia Atoll, Tuamotu Islands; outer reef flats; August 25, 1952; J. P. E. Morrison; Loc. 2215: 1 spec.

## Appendix

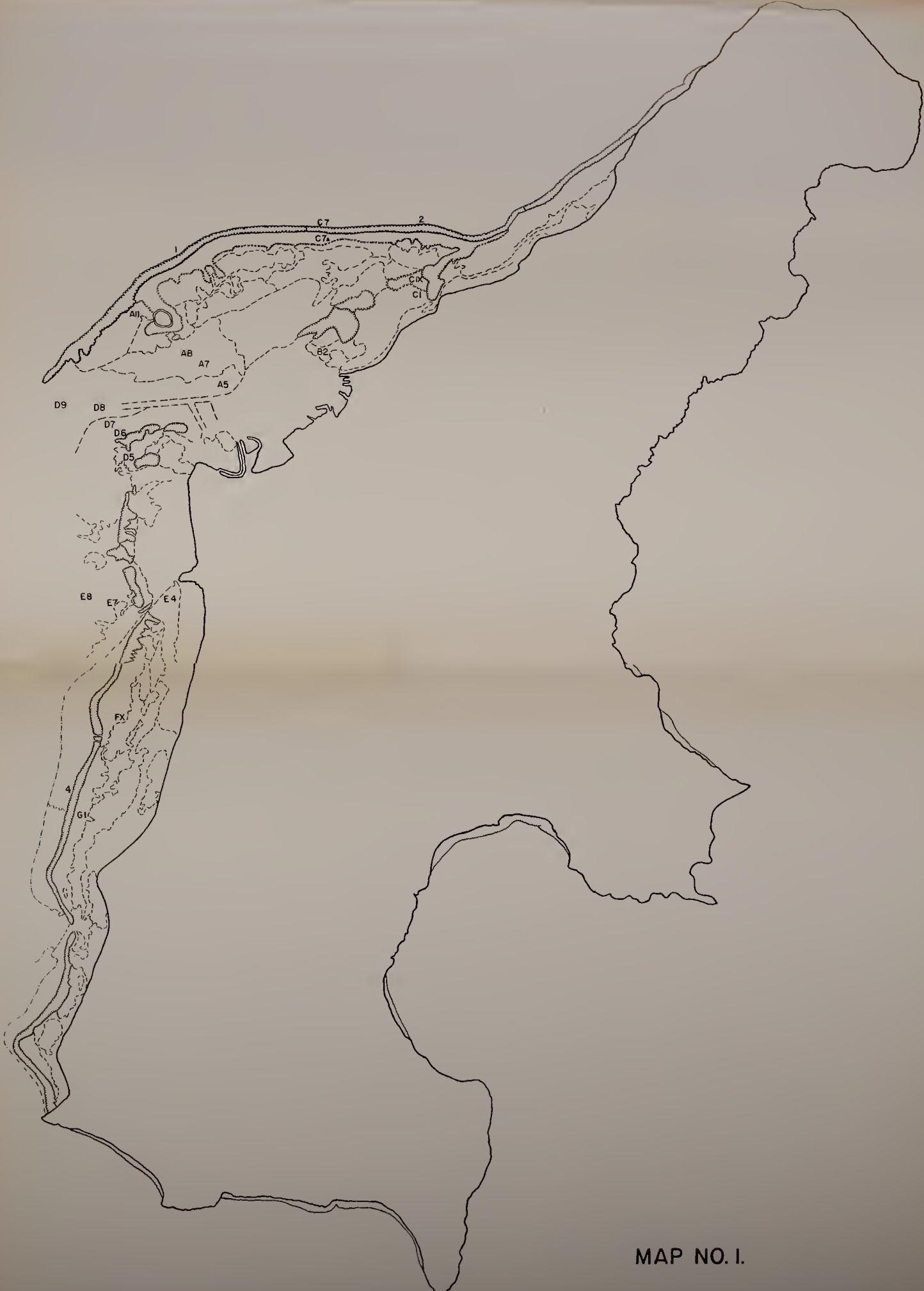
Collection data relating to specimens taken  
by R. W. Hiatt at Arno Atoll

- E 1-3. Churchyard, Inc Village, about 30 yards from edge of water.  
E 1-7. Under rocks near shore on sea reef. Inc.  
E 1-8. Common on rocks near shore, especially at night.  
E 1-10. Undersides of rocks in shallow water on sea reef.  
E 1-12. On rocks exposed at low tide, sea reef, Inc.  
E 1-16. Sandy bottom near shore, sea reef, Inc.  
E 1-28. Inshore area, sea reef, Inc.  
E 1-41. Sandy bottom inshore on sea reef, Inc.  
E 1-42. Common under rocks sitting in inshore tide pools, sea reef, Inc.  
E 1-44. Sandy bottom inshore on sea reef, Inc.  
E 1-46. Common under rocks and boulders inshore on sea reef, Inc.  
E 1-47. Common in sand inshore on sea reef, Inc.  
E 1-48. Common under rocks in sand inshore on sea reef, Inc.  
E 1-51. Common in inshore area of sea reef, Inc.  
E 1-52. Inshore area of sea reef, Inc.  
E 1-66. Sea reef, Inc, about halfway between beach and outer edge.  
E 1-108. Inshore area, sea reef, Inc.  
E 1-109. Same area as E 1-108.  
E 1-153. In bases of dead coral heads, halfway out on sea reef, Inc.  
E 1-163. Uncommon in dead bases of heads of Montipora garinardi,  
sea reef, Inc.  
E 1-171. Common, inshore on sea reef, Inc.  
E 1-178. Sea reef, Inc, near outer edge.  
E 1-294. Bases of dead coral about halfway out on sea reef, Inc.  
E 1-302. Sea reef near outer edge.  
E 1-304. Common about halfway out on sea reef, Inc.  
E 1-305. Brackish water pond on Malel Island, Arno Atoll.  
E 1-386. Sea reef near outer edge, Inc.  
E 1-389. Near outer edge of sea reef, Inc.  
E 1-390. Near outer edge of sea reef, Inc.  
E 1-391. Near outer edge of sea reef, Inc.  
E 1-399. Beach rock on sea reef side, Inc.  
E 1-400. Beach rock and boulders on sea reef side, Inc.  
E 1-406. Outer edge of sea reef, Inc.  
E 1-411. Outer sea reef edge, Inc.  
E 1-413. Taken from trunk of breadfruit tree, 15 feet from the ground.  
Several others seen higher up, all on green patches of  
moss or lichens.  
E 1-416. Taken under rocks.  
E 1-417. Taken from trunks of coconut palms bearing epiphytic ferns  
3 to 4 feet above the ground.  
E 1-418. Common under rocks 100-200 feet inland from sea beach.  
E 1-419. Found under overhanging base of coconut palm.  
E 1-419a. Very common over much of land area.  
E 1-420. Common over much of land area.

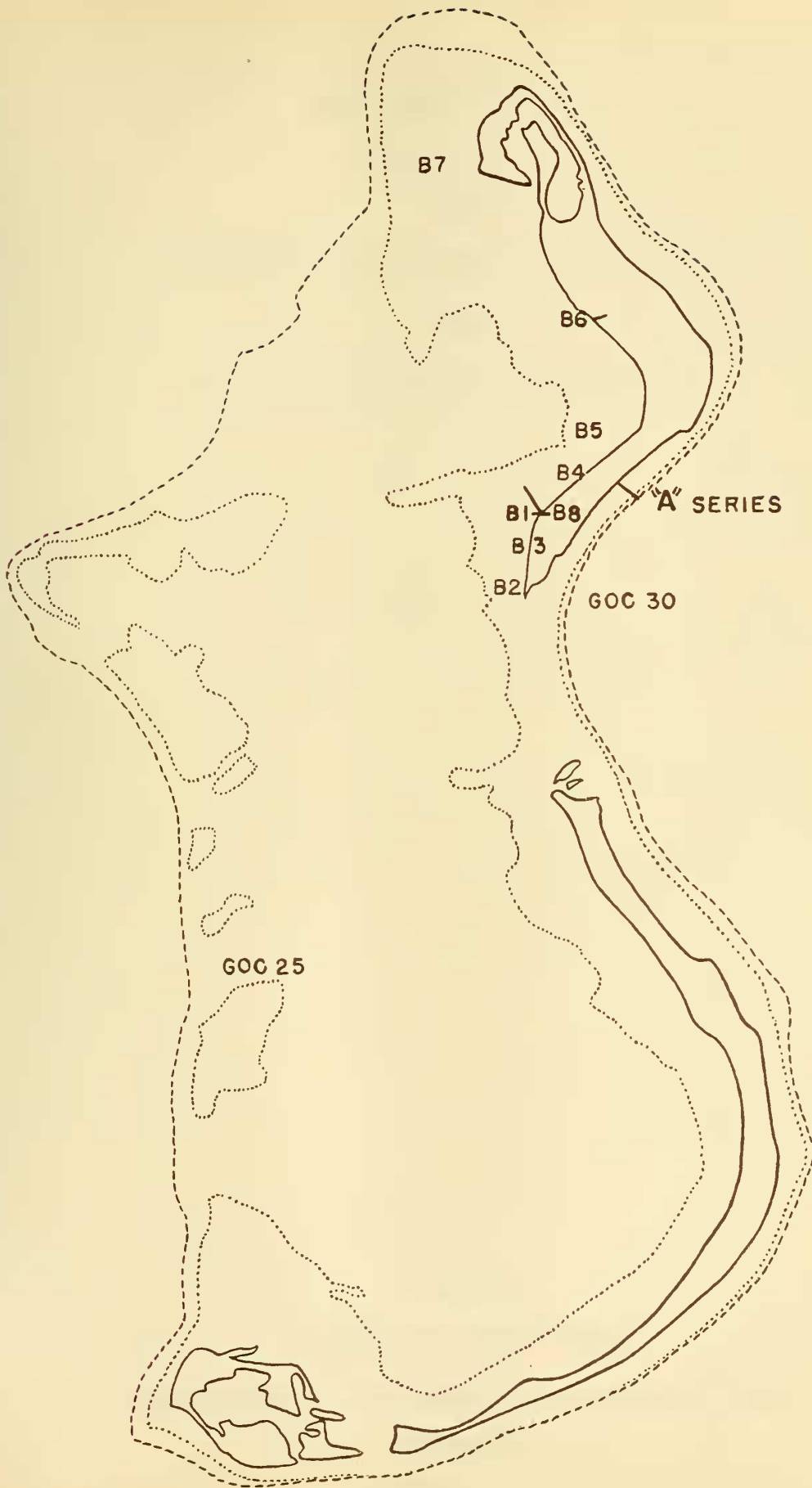
- E 1-423. Common on many islets and extends across from sea to lagoon side on narrow islets.
- E 1-424. Under rocks on seaward portion of Ine island.
- E 1-426. Common on land near seaward side of Ine island.
- E 1-427. As in E 1-426.
- E 1-428. As in E 1-426.
- E 1-429. As in E 1-426.
- E 1-435. In sandy bottom, inshore area of sea reef, Ine.
- E 1-438. Center of Ine island.
- E 1-440. Center of Ine island.
- E 1-589. Ine island about 200 feet from the lagoon beach.
- E 1-592. Inshore area of sea reef, Ine.
- E 1-620. Uncommon near outer edge of sea reef, Ine.
- E 1-622. Common near outer edge of sea reef, Ine.
- E 1-631. From heads of Pocillopora sp. on outer seaward slope of reef flat, Ine.
- E 1-644. From Acropora sp. heads, on outer sea reef slope, Ine.
- E 1-645. From heads of Stylophora sp., on outer sea reef slope, Ine.
- E 1-651. From heads of Pocillopora sp., on outer sea reef slope, Ine.
- E 1-658. Land near lagoon side of Ine island.
- E 1-659. From decaying vegetation and coconut bushes, near lagoon beach, Ine island.
- E 1-660. Land at edge of lagoon reef beach, Ine.
- E 1-661. As in E 1-660.
- E 1-662. From boulders and rocks high on the sea reef boulder rampart, Ine.
- E 1-665. As in E 1-662.
- E 1-666. ?
- E 1-666a. Under rocks at inner edge of sea reef, Ine.
- E 1-667. Most common crab under boulders resting on sand in shallow tide pools of intertidal area of sea reef shore, Ine.
- E 1-668. Uncommon, as in E 1-667.
- E 1-673. Commensal with giant anemone, Discosoma, on outer sea reef slope, Ine.
- E 1-678. Outer edge of sea reef, Ine.
- E 1-680. Sand beach on sea side, Ine.
- E 1-701. Ine.
- E 1-702. "
- E 1-703. "
- E 1-704. "
- E 1-705. "
- E 2-3. Abundant in shallow water of lagoon reef in sandy areas near shore, Ine.
- E 2-4. Lagoon beach, Ine.
- E 2-5. Sandy bottom inshore on lagoon reef flat, Ine.
- E 2-7. Tide pool near shore on lagoon reef flat, Ine.
- E 2-8. Under rocks near shore on lagoon reef flat, Ine.
- E 2-16. Taken from shell of Trochus niloticus off outer slope of lagoon reef, Ine.
- E 2-17. Lagoon beach, Ine.
- E 2-18. Taken from trunks of bread fruit trees on Tagelib islet, Arno Atoll.

- E 2-19. From head of Pocillopora near lagoon reef shore, Ine.
- E 2-20. Under rocks on shore of lagoon, Ine.
- E 2-21. Sand bottom inshore on lagoon reef flat, Ine.
- E 2-22. From base of dead coral in shallow water inshore on lagoon reef, Tagelib Island, Arno Atoll.
- E 2-23. From sandy bottom of lagoon reef, 20 feet deep, Tagelib Island, Arno Atoll.
- E 2-123. Walked into house in interior of Ine Island.
- E 2-124. Ine Village.
- E 2-138. Lagoon reef flat near outer portion, Ine.
- E 2-144. Inshore area of lagoon reef flat, Ine.
- E 2-149. Upper edge of lagoon beach, Ine.
- E 2-150. Lagoon beach, Ine.
- E 2-151. From sandy bottom inshore on lagoon reef, Ine.
- E 2-155. Sandy shore, lagoon beach, Ine.
- E 2-164. Sandy bottom at inner edge of lagoon reef flat, Ine.
- E 2-170. Inner edge of lagoon reef flat, Ine.
- E 2-171. Uncommon under coral heads near outer edge of lagoon reef flat, Ine.
- E 2-172. From bread fruit tree in interior of Ine Island.
- E 2-175. Under coral head near outer edge of lagoon reef flat, Ine.
- E 2-178. In base of dead coral head at inner edge of lagoon reef flat, Ine.
- E 2-180. Inner portion of lagoon reef flat, Ine.
- E 2-185. Very common under rocks and in crevices in intertidal area of lagoon reef flat, Ine.
- E 2-187. Under rocks at high tide level and above on lagoon beach, Ine.
- E 2-189. Common in tidepools in intertidal area of lagoon reef flat, Ine.
- E 2-190. As in E 2-189.
- E 2-192. Very common under rocks near the water's edge, lagoon reef flat, Ine.
- E 2-275. Dredged from 20 fathoms in the lagoon.
- E 2-304. Common in inshore area of lagoon reef flat.
- E 2-306. In sandy bottom at inshore edge of lagoon reef flat, Ine.
- E 2-307. As in E 2-306.
- E 2-308. As in E 2-306.
- E 2-325. Common in inshore area of lagoon reef flat, Ine.
- E 2-339. Outer edge of lagoon reef flat, Ine.
- E 2-340. Outer portion of lagoon reef flat, Ine.
- E 2-351. From heads of Ceriatopora hystrix near outer edge of lagoon reef flat, Ine.
- E 2-366. From heads of Stylophora mordax near outer edge of lagoon reef flat, Ine.
- E 2-367. Outer edge of lagoon reef flat, Ine.
- E 2-369. Inshore area of lagoon reef, Ine.
- E 2-400. From rocks at upper edge of intertidal zone on lagoon shore, Ine.
- E 2-401. As in E 2-400.
- E 2-403. As in E 2-400.

- E 2-405. Near outer edge of lagoon reef flat, Ine.
- E 2-443. Near outer edge of lagoon reef flat, Ine.
- E 2-454. Outer lagoon reef slope, Ine.
- E 2-455. Under coral head, outer lagoon reef slope, Ine.
- E 2-457. Near outer edge of lagoon reef flat, Ine.
- E 2-488. ?
- E 2-496. Outer lagoon reef slope, Ine.
- E 2-497. As in E 2-496.
- E 2-498. Near outer edge of lagoon reef flat, Ine.
- E 2-502 to E 2-517. All from lagoon reef except E 2-513 and E 2-514  
which are land forms from Ine Island.



MAP NO. I.



MAP NO. 2.